

Kawneer

STORE FRONTS





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1929 Edition

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THE KAWNEER COMPANY
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Kawneer

NEW AND IMPROVED STORE FRONT CONSTRUCTION
IN SOLID BRONZE OR COPPER



SOLID NICKEL-SILVER AND BRONZE SHOWER BATH DOORS

THRESHOLDS---(COLD DRAWN AND EXTRUDED)

NICKEL-SILVER AND BRONZE DOORS

SOLID NICKEL-SILVER WINDOWS

REVERSIBLE WINDOW FIXTURES

ARCHITECTURAL MOULDINGS

WINDOW VENTILATORS

WINDOW HARDWARE

GRILLES

BEAUTIFUL SPECIMENS OF HIGHLY ORNAMENTAL
STORE FRONTS SHOWING DETAILS AND PHOTO-
GRAPHS. SEE PAGE NOS. 6-7-8 AND 9.

For Complete Index, See Page No. 62

THE
Kawneer
COMPANY
NILES - - MICHIGAN

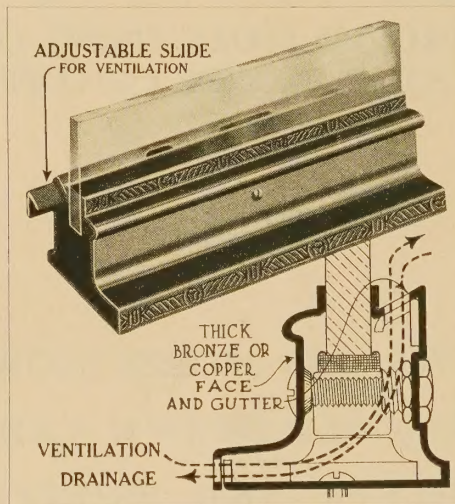


NEW ARCHITECTURAL BEAUTY

Added To Time Tested Advantages of Kawneer Construction

KAWNEER presents herein a wealth of advanced new ideas in store front construction. New architectural beauty has been achieved in design and ornamentation without sacrificing the proven time tested principles that have brought Kawneer world wide recognition as the standard in store front construction.

Resiliency still remains as a predominant feature of Kawneer construction---assuring plate glass protection. Drainage and Ventilation---also pictured on this page---features of Kawneer since



its origination---play the same important role as before. Now with the introduction of the new enched design on all high quality store front members, a great forward stride has been taken by Kawneer---a definite milestone in store front history.

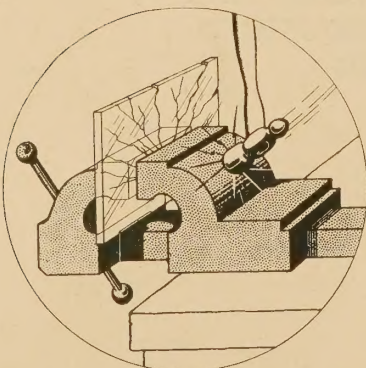
You will find in the pages of this book evidence of Kawneer progress in the new and

improved units of construction---new awning bars, new bulkheads, new doors, new grilles, new suggestions of embellishment and numerous other items that have never before been available.



THE PRINCIPLE OF RESILIENCY WHICH IS EMBODIED IN ALL KAWNEER SASH AND BARS

The test shown below proves that Kawneer glass holding members protect plate glass from breakage due to excessive wind pressure and other disturbances.



The plate glass is gripped lightly in the jaws of vise. By moderately striking the vise with hammer the glass is easily shattered because held in rigid grip.

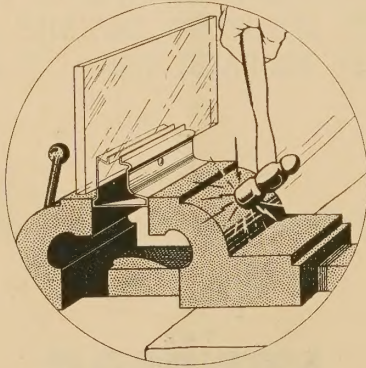
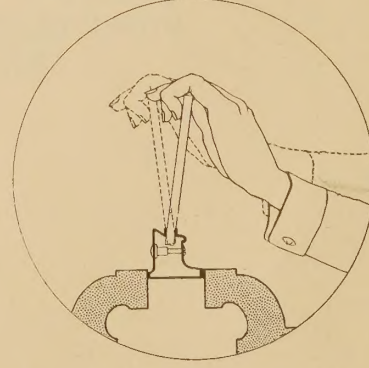
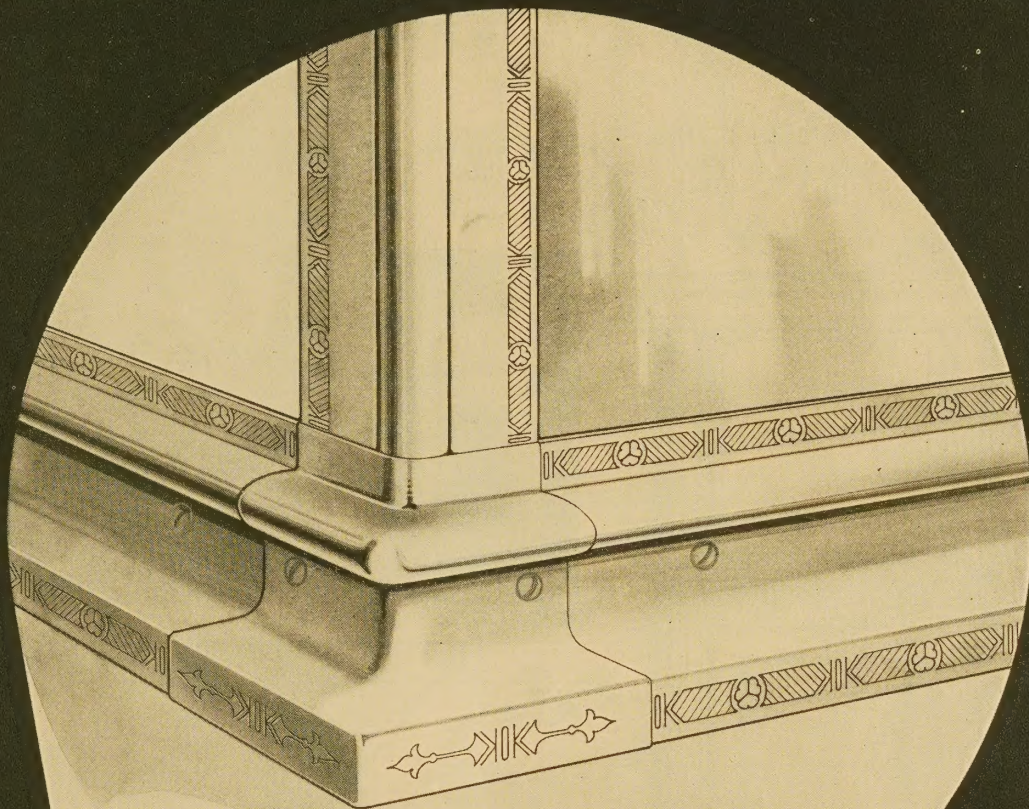


Plate glass held between resilient members of Kawneer Sash. Sash is gripped in jaws and vise struck with hammer. Glass remains unbroken due to resilient grip.

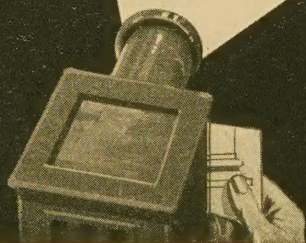


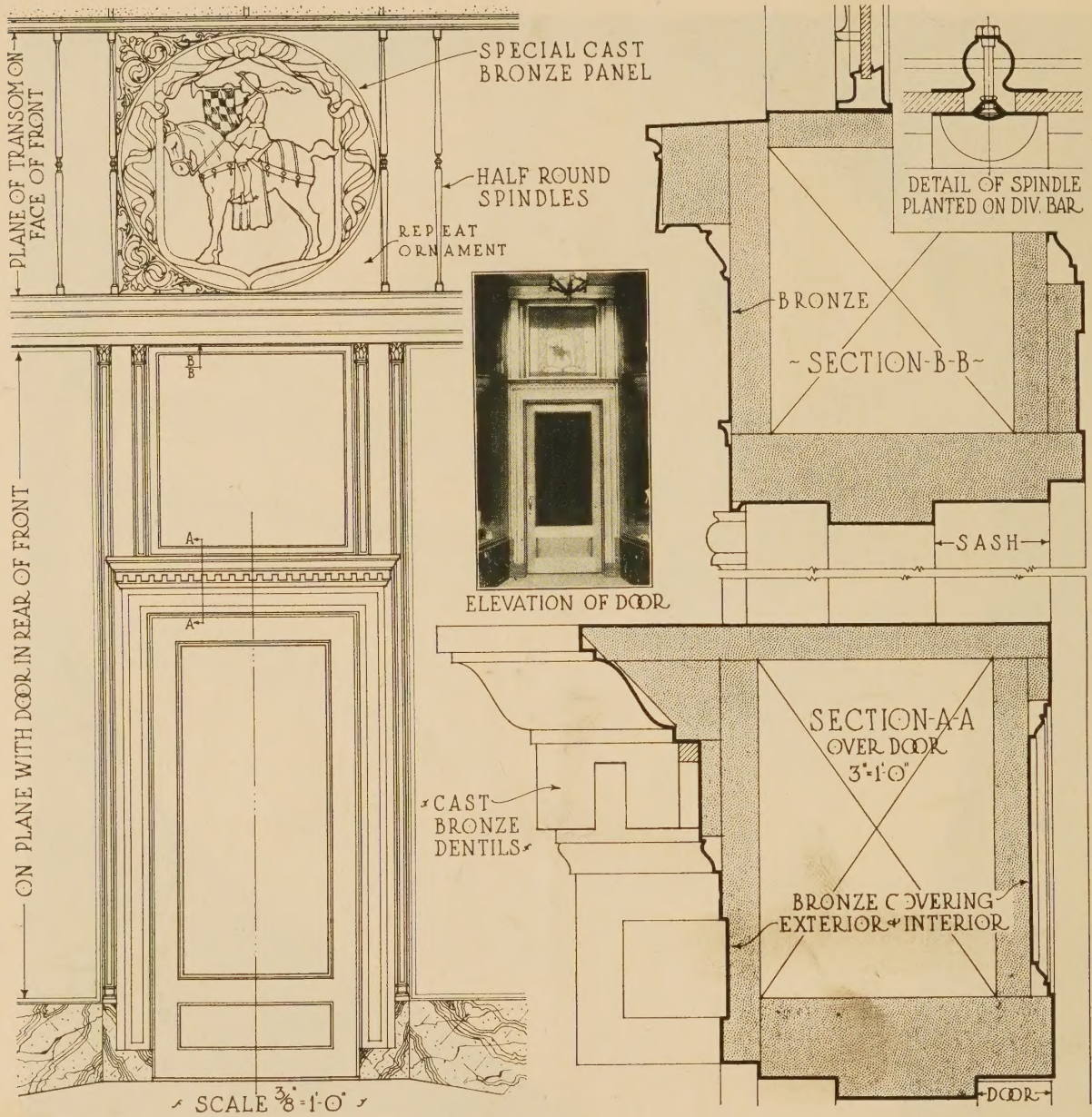
The resilient grip of Kawneer construction permits glass to rock on its own base when bowed under wind pressure and other disturbances thereby absorbing vibrations.



ANOTHER KAWNEER ACHIEVEMENT

The ornamental design shown above is now chased on Kawneer high quality store front construction—an exclusive feature. This adds beauty and character to a store front and identifies it as Kawneer.

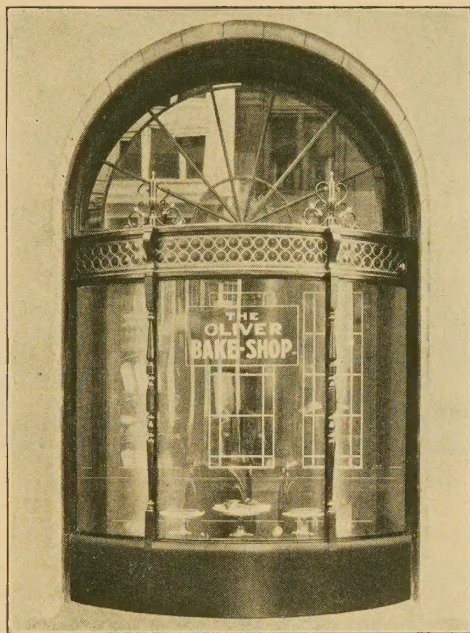




HOLMES & WINSLOW, ARCHITECTS

BUILT TO ARCHITECTS' DETAILS AND SPECIFICATIONS

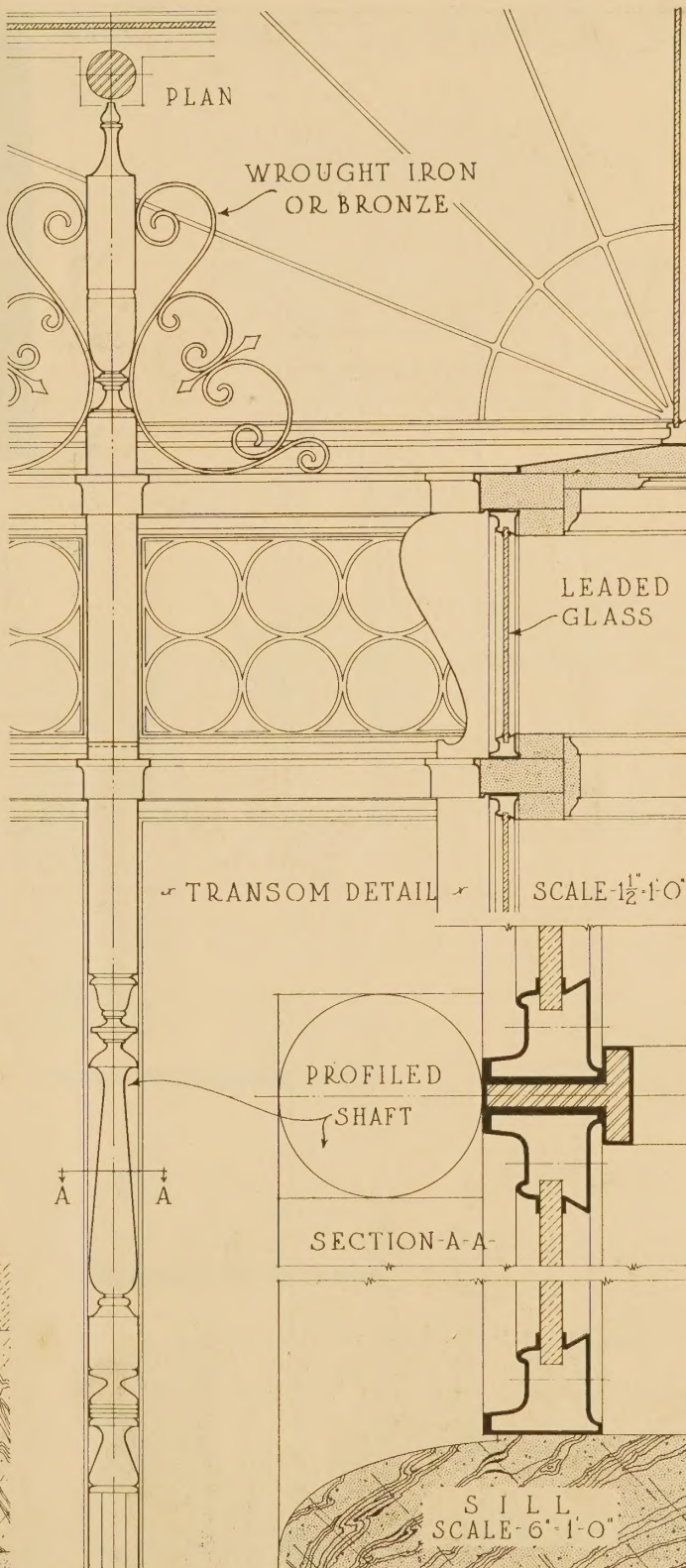
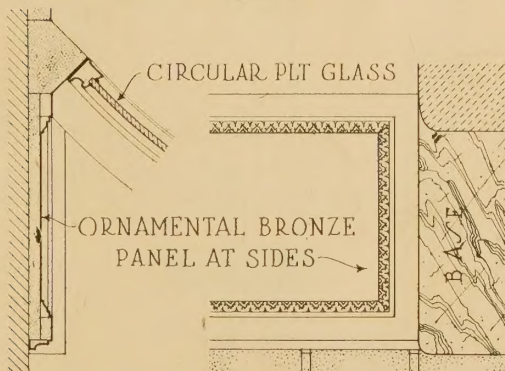
All metal work on this front, ornamental and plain, was furnished and installed by Kawneer. The construction and design are in accordance with the architect's details and built to his entire satisfaction. We also build beautiful nickel-silver and bronze doors that can be elaborately decorated, if desired. (See Sheet No. 48.)

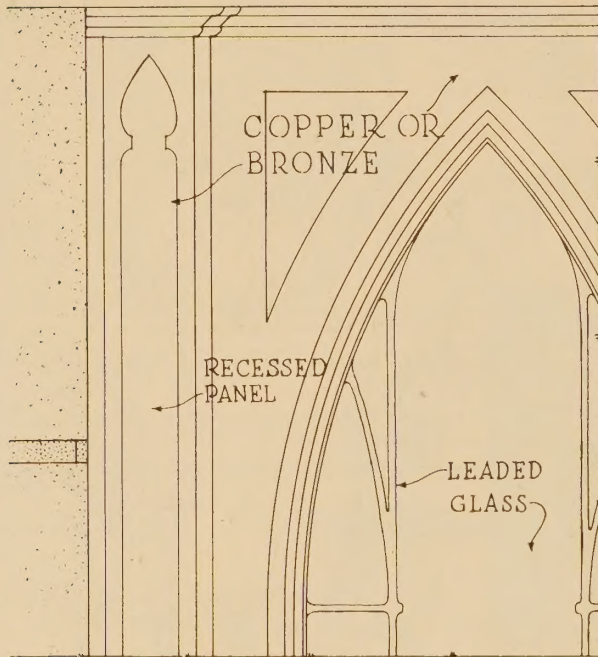


KERVICK & FAGIN, ARCHITECTS

A COMPLETE KAWNEER WINDOW

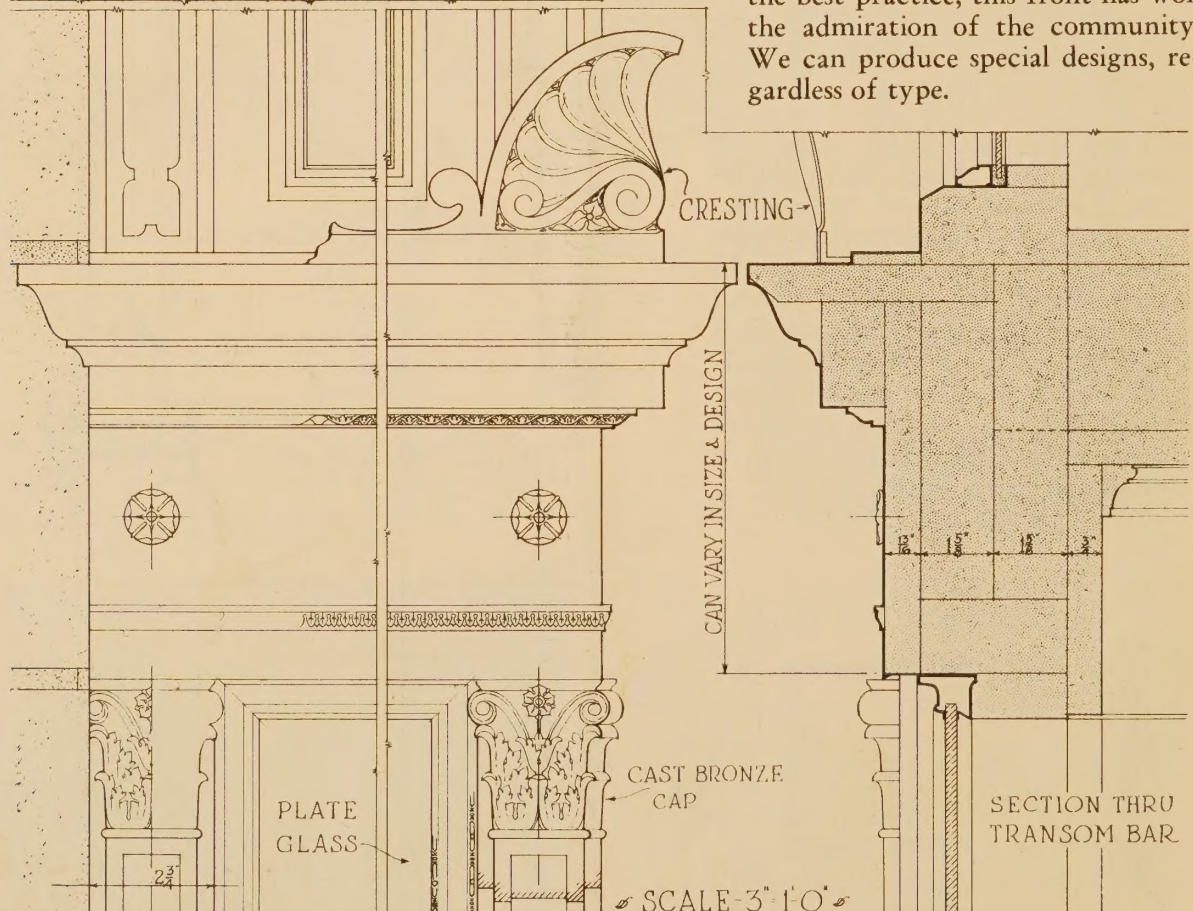
Heavy bronze shafts, urns and wrought work can be used to beautify a window or store front without sacrificing the protective qualities of Kawneer glass setting. In this instance the architect planted the embellishments on our standard members, thus obtaining a beautiful and well constructed installation. Kawneer ornamentalations are unexcelled in appearance, being sharp and clean cut.

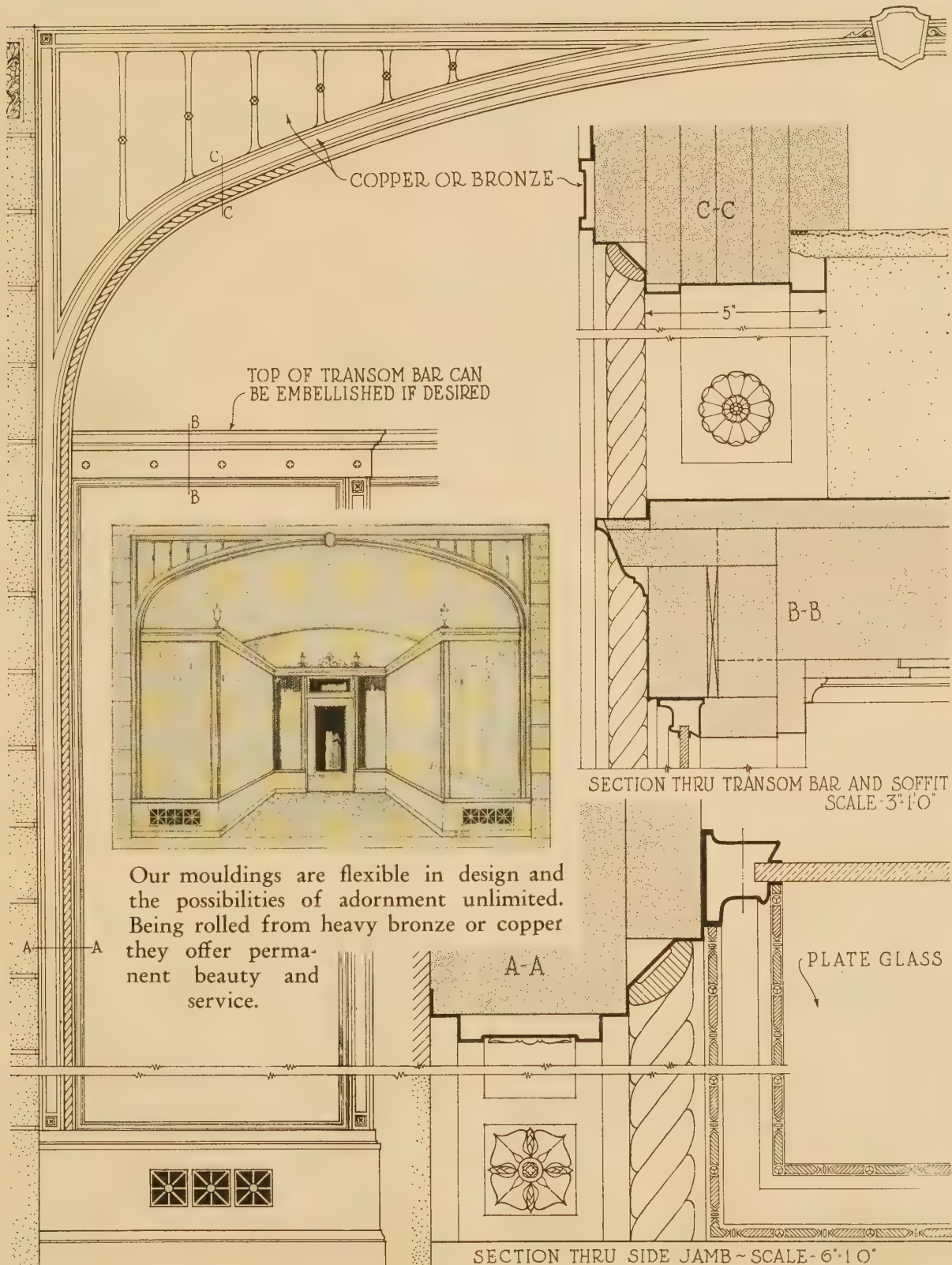




THE HIGHLY ORNATE TYPE

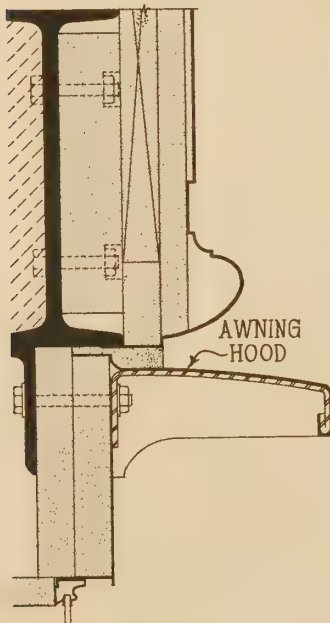
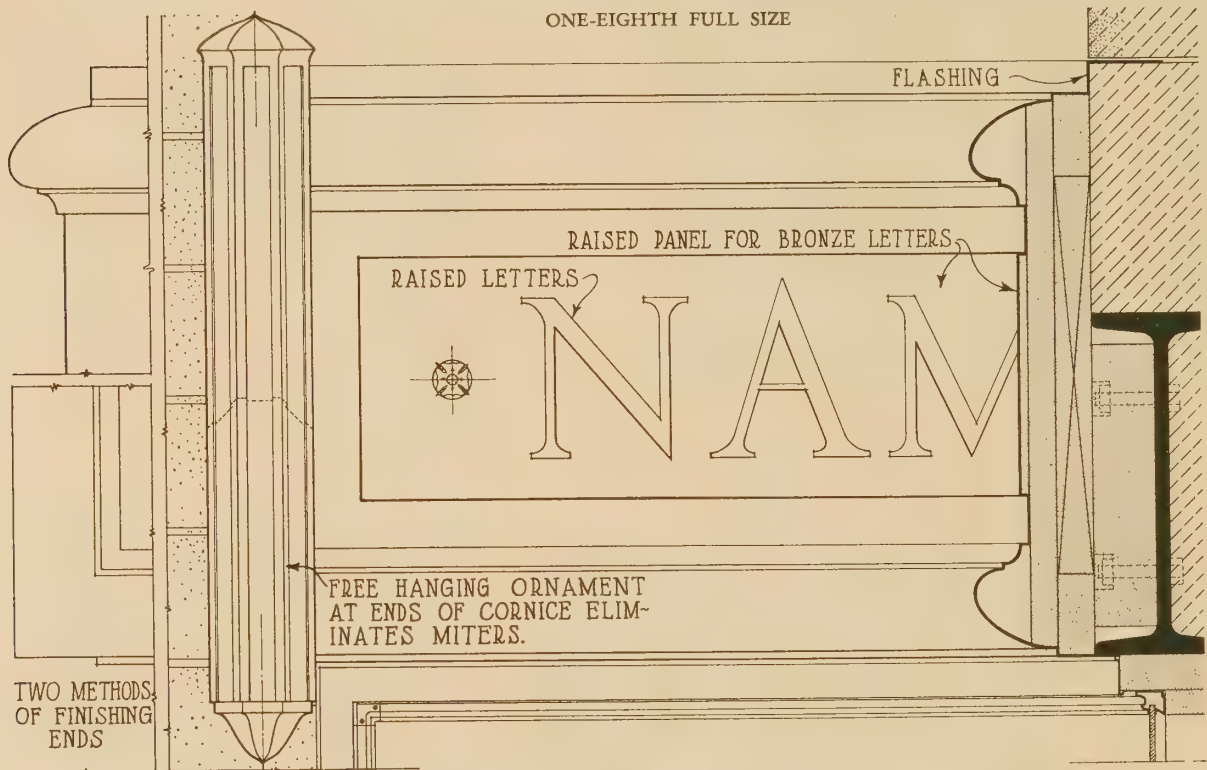
Many times merchants have ideas which they desire developed and built into their store fronts. Though the combination of the orders shown may not be consistent with the best practice, this front has won the admiration of the community. We can produce special designs, regardless of type.



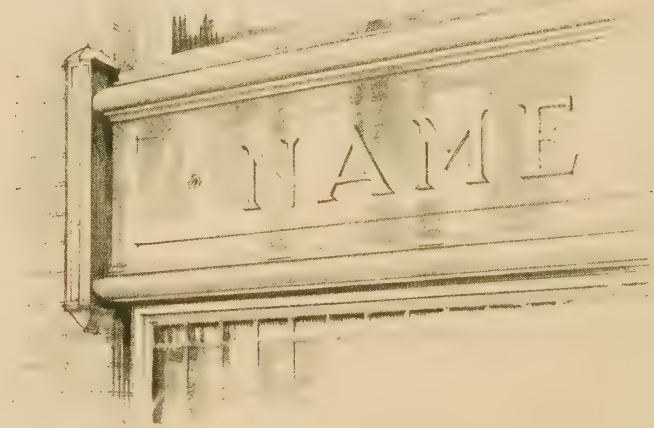


NAME PANEL AND CORNICE DETAIL

ONE-EIGHTH FULL SIZE



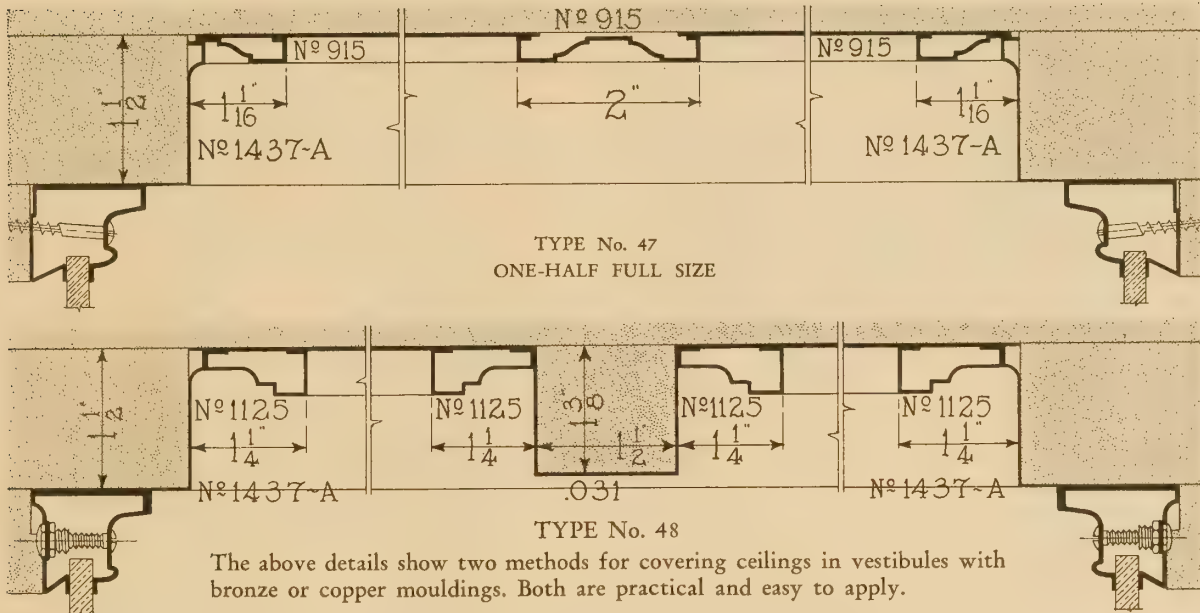
CORNICE DETAIL
IN COMBINATION
WITH AWNING HOOD



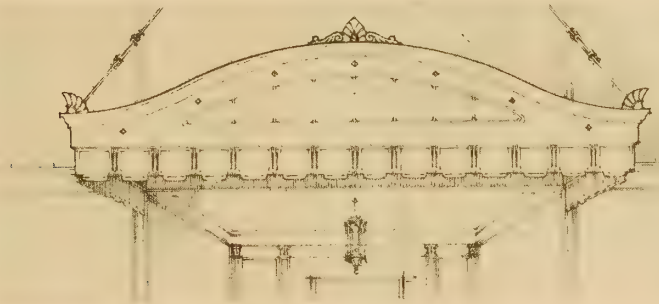
Here is a bold and practical treatment for a name panel and cornice covering. The mouldings have considerable character and are formed of heavy bronze or copper. To eliminate installation complications a free hanging ornament can be used at ends, the appearance of which is shown in the sketch and detail above.

With this treatment, it is also possible to use an awning cover such as shown at the left. This places awning above transom.

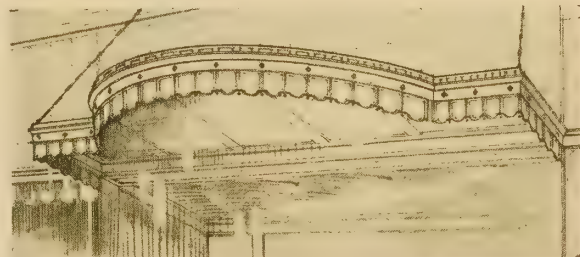
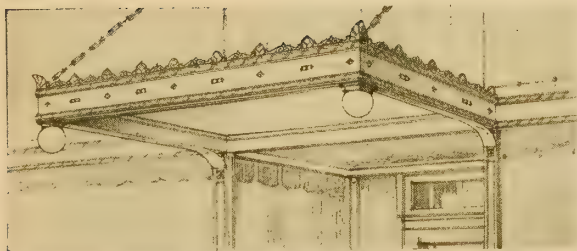
METAL SOFFIT



METAL MARQUISE



The extent to which these canopies can be enriched is unlimited.

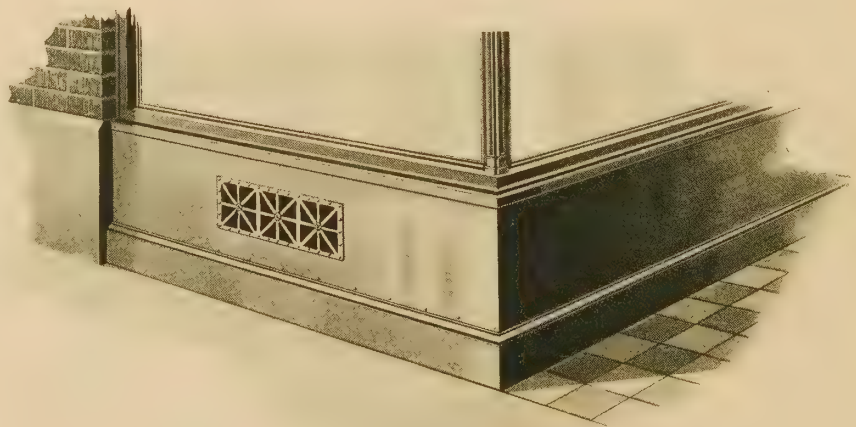


Beautiful marquee can be fabricated from our bronze or copper mouldings and ornamentations. The mouldings can be curved and adjusted to conform with the most intricate designs.

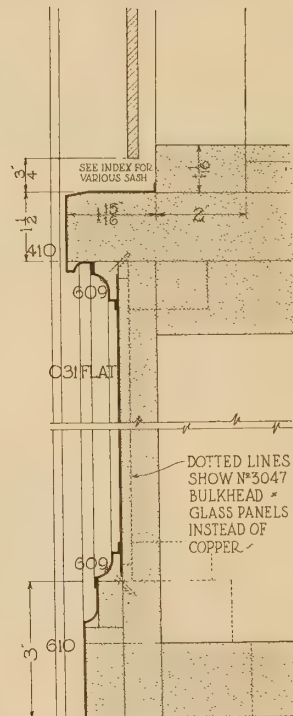
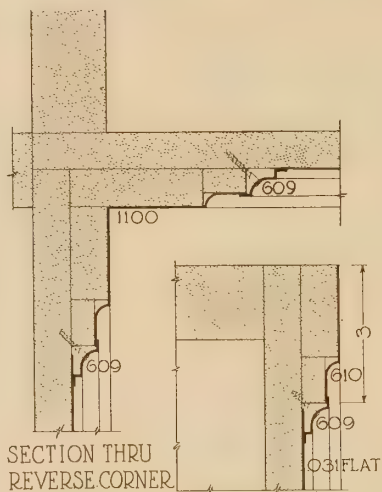
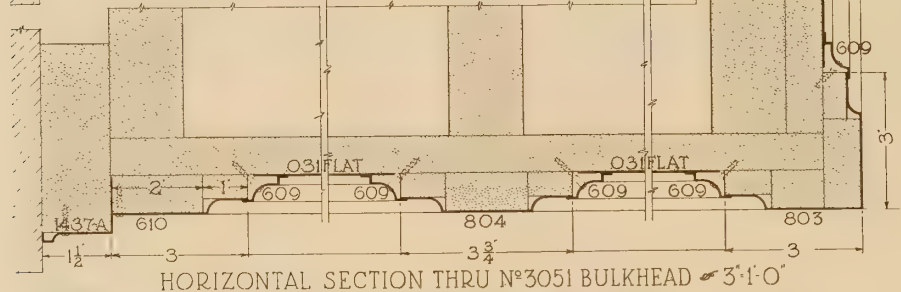
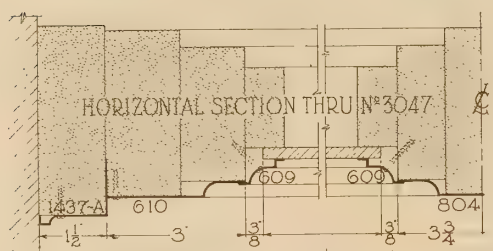
The above sketches merely suggest types that have been built by us and found entirely satisfactory. We also carry different types of pendants for encasing art glass, etc. Drawings will be furnished upon request.

[illegible]

The elevation at the right illustrates in perspective the classic lines of this base. It shows how harmoniously it blends with the adjoining members above.

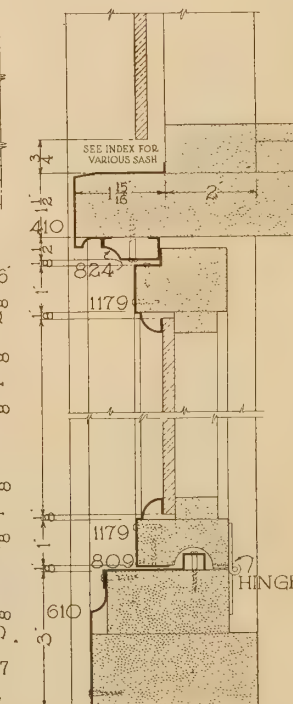
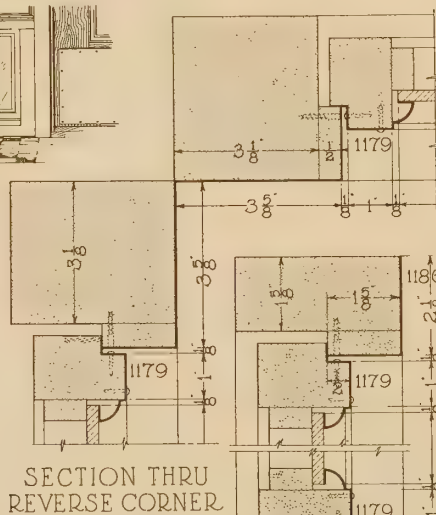
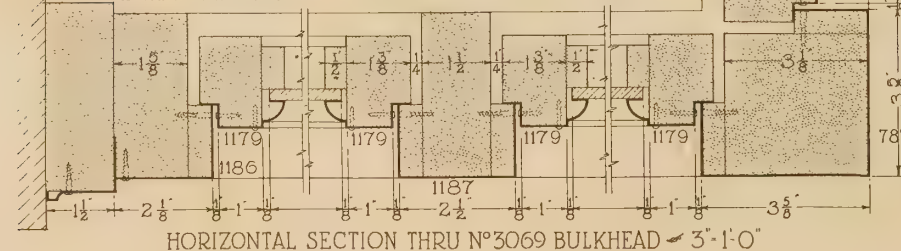
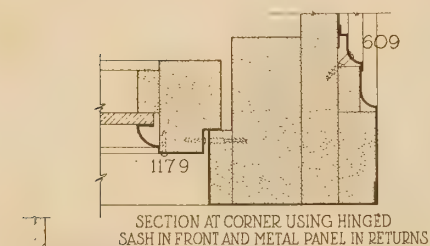


ONE-QUARTER FULL SIZE



This architectural section drawing illustrates a large interior space, likely a hall or a large room. The floor is depicted with a checkered pattern. The ceiling is high and features a series of vertical lines, possibly representing structural elements or lighting fixtures. A large, rectangular opening or window is visible on the right side of the drawing, showing a view of the exterior. The drawing is executed in a detailed, line-art style, typical of architectural plans.

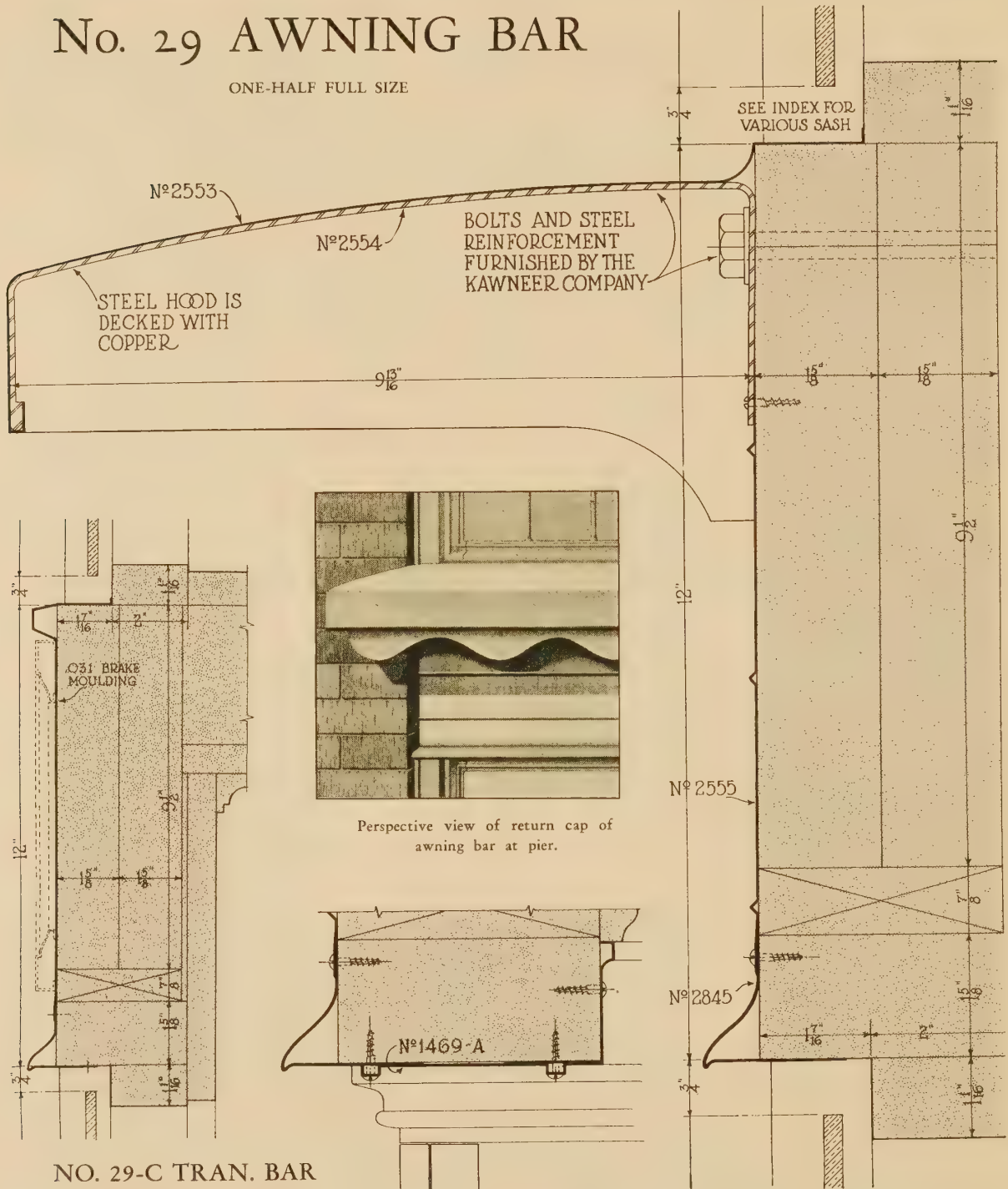
ONE-QUARTER FULL SIZE



VERTICAL SECTION
THRU N° 3069

No. 29 AWNING BAR

ONE-HALF FULL SIZE

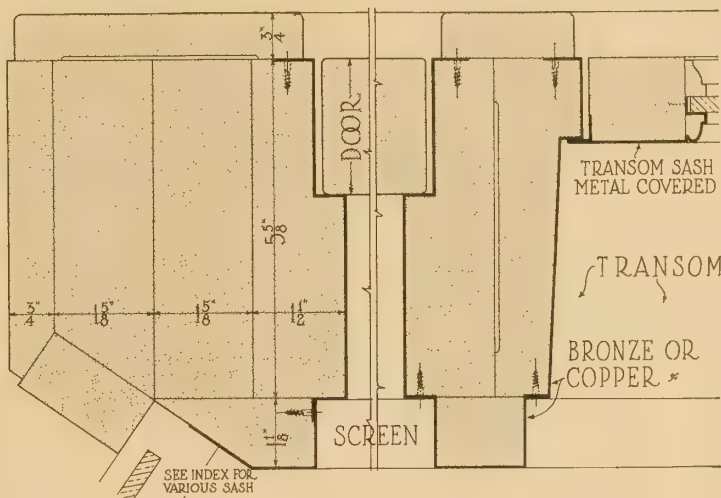


NO. 29-C TRAN. BAR

ONE-QUARTER FULL SIZE

Used in conjunction with No. 29 bar when hood is not required. The wide metal panel can be embellished with ornaments or name as desired.

A neat and inexpensive bar that provides shelter for the awning by means of a continuous steel hood decked with copper. This treatment eliminates installation complications and provides an abundance of space for awning roll. Even though the steel is painted at factory it also should be painted with an appropriate color after installation.



ONE-THIRD FULL SIZE

Regardless of the nature of the wood construction we can produce metal mouldings that will protect the door frame and transom construction and beautify the entrance. The above suggests a practical treatment; used with or without metal.

ONE-THIRD FULL SIZE

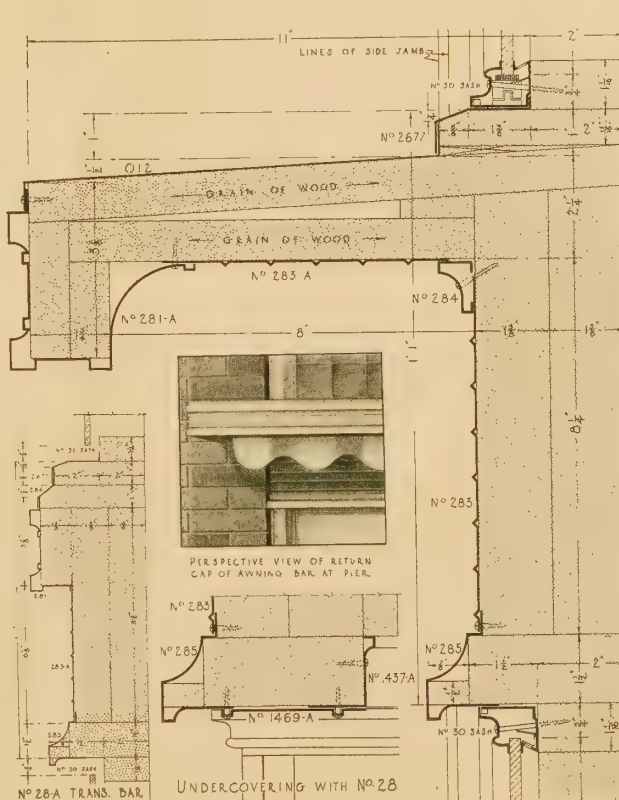
An exceptionally handsome bar that can be used between plate and transom glass or as a cornice at girder. The projecting member, 271-D, casts a strong shadow over the frieze which appears very effective. The frieze can be ornamented if desired.



At Right

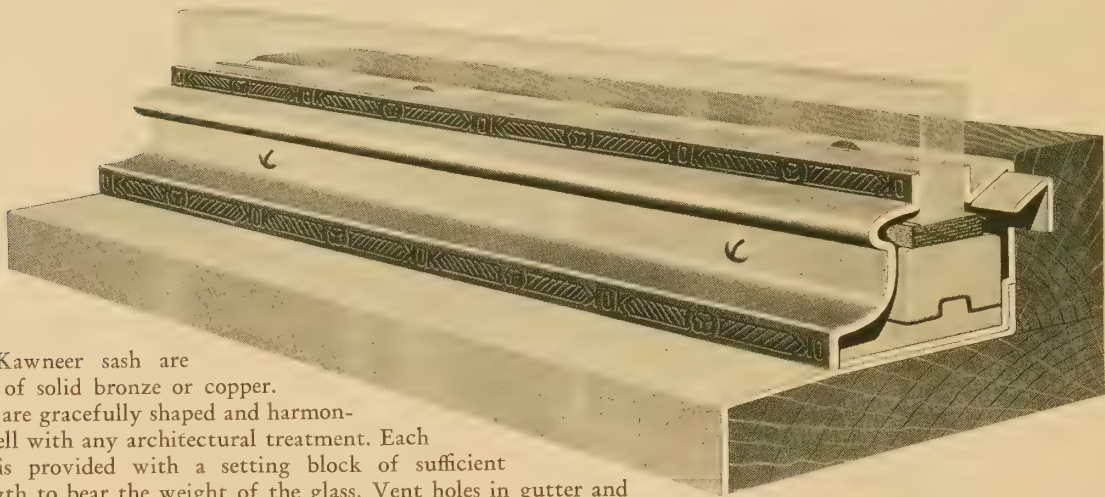
ONE-QUARTER FULL SIZE

Constructed along the lines of those shown on previous pages, these awning bars are of a slightly different character. They have been extensively used for years.



SASH

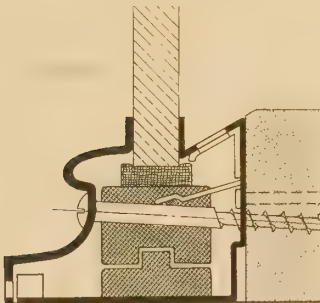
FULL SIZE



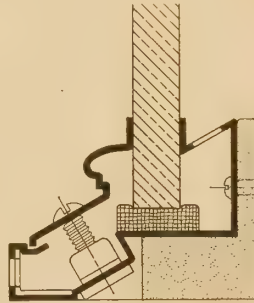
All Kawneer sash are made of solid bronze or copper. They are gracefully shaped and harmonize well with any architectural treatment. Each sash is provided with a setting block of sufficient strength to bear the weight of the glass. Vent holes in gutter and face, when desired, provide ventilation and drainage, while V shaped slide in gutter gives ventilation control.

Nos. 33, 34, 35, 36 and 40 sash are securely anchored by the use of machine or wood screws.

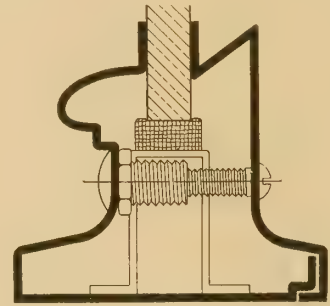
The face members of all sash are identified with the ornamental chasing as featured above.



No. 30 This sash is easy to install. It is punched for ventilation and drainage (without slide) unless otherwise specified and is equipped with adjustable setting block.

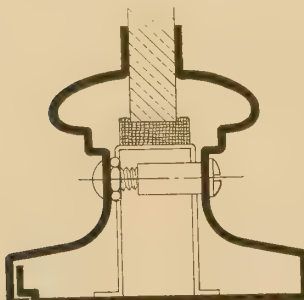


No. 32 A beautiful sash with machine screw adjustment. Unlike other sash shown on this page, slide for controlling ventilation occurs in forepart of gutter.

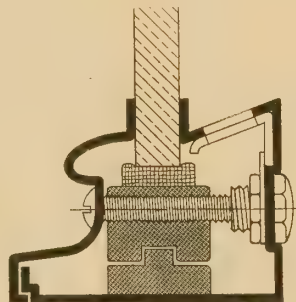


Nos. 33 and 34

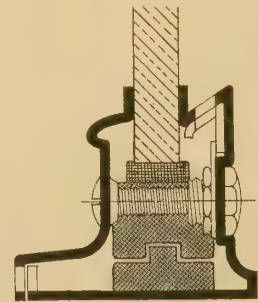
For unusually large areas. No. 34 above, interlocks in rear for inside glazing, No. 33 in front for outside. Not ventilated unless ordered.



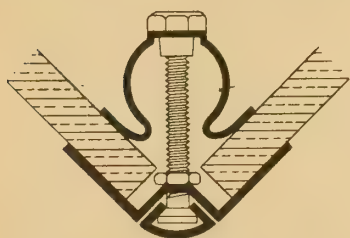
No. 35 Another heavy duty sash that provides a beautiful finish on both sides of glass. It is not provided with slide or ventilating holes.



No. 36 This sash is provided with an extra wide gutter. For use with or without wood backing. Also equipped with adjustable setting block.

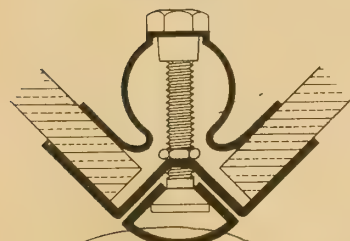


No. 40 A graceful, compact sash of beautiful lines. Used with or without backing. Machine screw adjustment and adjustable setting block.

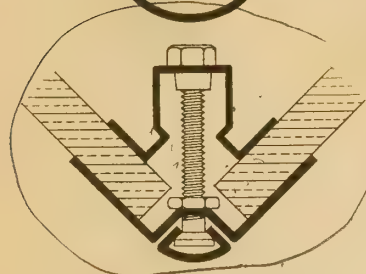


Refer to table on page 41 showing proper bars to use for glass areas.

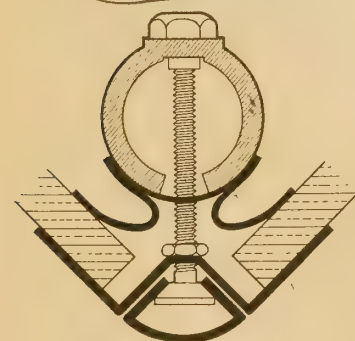
No. 3 A small compact bar for use in show cases, transoms, etc.



No. 4 Used when plate glass is not too large and when sheltered from high wind pressure.



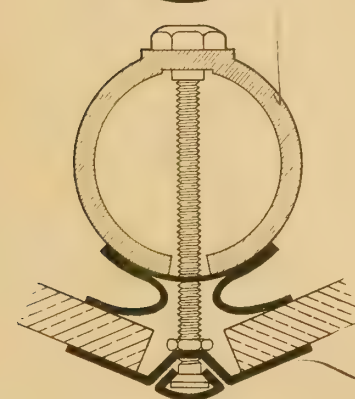
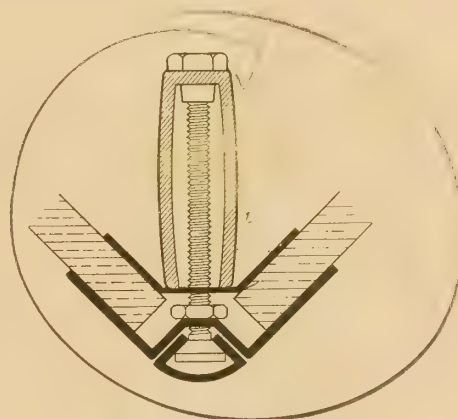
No. 5 Similar to No. 3. The angular spring frequently proves advantageous for applying fixtures.



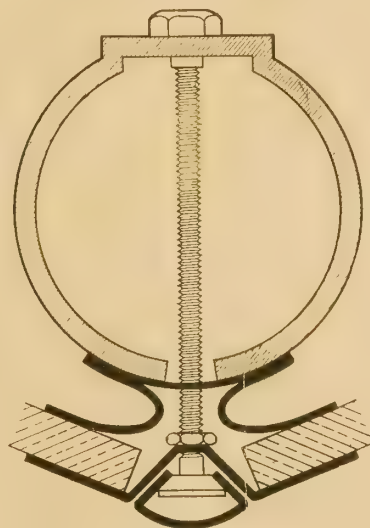
No. 6 A heavy corner bar of sturdy construction used when plate glass area is large.

No. 38-A

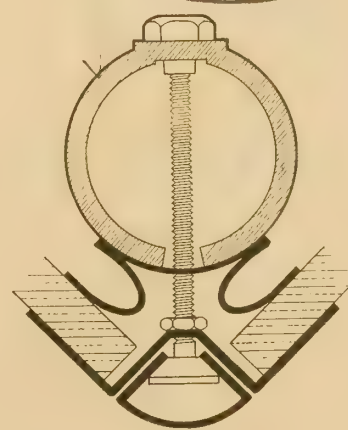
Another corner bar suitable for medium size plates.



No. 7 A wide angle bar for adjoining two plates of glass that meet at an angle of 135 degrees or more.



No. 8 Another wide angle corner bar similar to No. 7 (left) but of a much heavier construction.



No. 9 An extra heavy corner bar that will withstand severe lateral pressure. It is strongly reinforced.

CORNER BARS

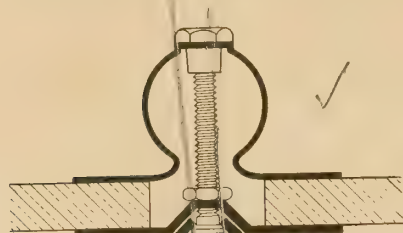
FULL SIZE

The outstanding characteristics of all Kawneer bars are simplicity and neatness. All spring members are furnished in solid copper and the face members in bronze or copper as preferred. The tubular reinforcements on bars Nos. 6, 7, 8, 9 and 38-A are of steel with a protective coating.

The method of uniting the various parts is practical and positive. After edges of glass have been inserted between the resilient flanges of the face and spring members, the entire assembly is evenly and firmly drawn together by a brass nut engaged with a bronze machine screw. No rubbing of surfaces, no friction devices, just a firm, spring-like grip.

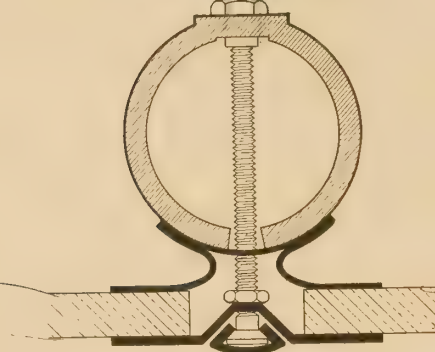
All corner bars can be made to meet the requirements of the architect.

With exception of 38-A, all corner bars bear the ornamental chasing.

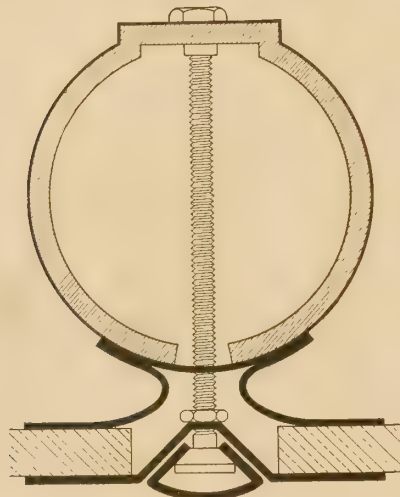


Refer to table on page 41 showing proper bars to use for different glass areas.

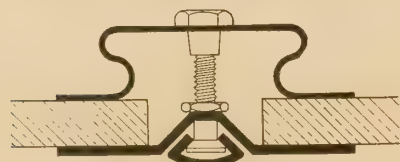
No. 11 A bar of small dimensions used only for uniting transom glass.



No. 12 This is the most widely used division bar of the group. It is strongly reinforced on inside and constructed to serve indefinitely.

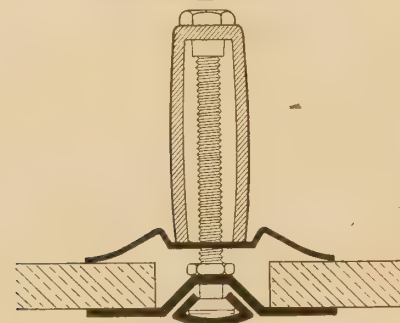


No. 13 Designed to support extra large plates where great lateral strength is required. It possesses the merits found in No. 12, except in a far greater degree.



No. 21-B

Used for joining show case doors to glass above.

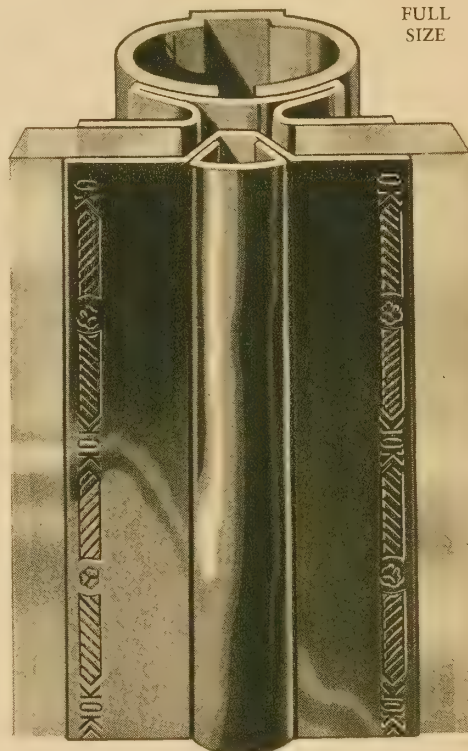


No. 19-A

At Right. Required where transom glass goes back in return, as well as across front. Tubular spring occurs on inside.

DIVISION BARS

FULL SIZE

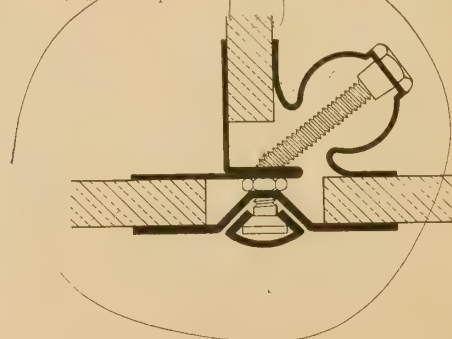


The same principle of construction is embodied in Kawneer division and reverse bars as that described under heading of corner bars—see page 19. The reinforcements on bar numbers 12, 13, 38-B, 17, 18 and 38-C are of steel with a protective coating.

Nos. 11, 12, 13 and 19-A only are identified with the ornamental chasing. See photograph above.



No. 16 A muntin bar for transom work only. Very compact and inconspicuous.

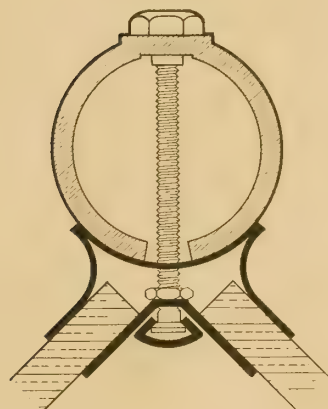


Refer to table on page 41 showing proper bars to use for different glass areas.

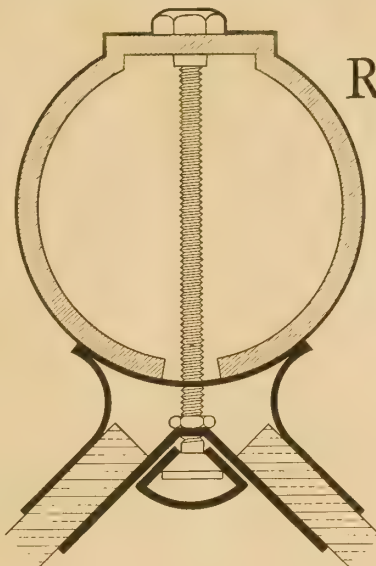
REVERSE BARS

FULL SIZE

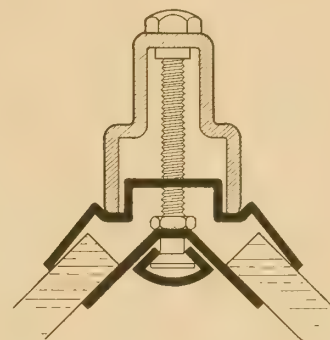
Nos. 17 and 18 bear the ornamental chasing.



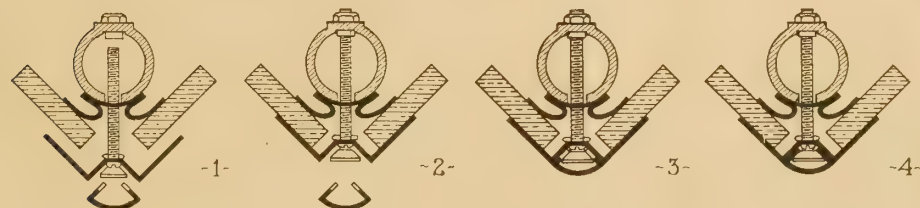
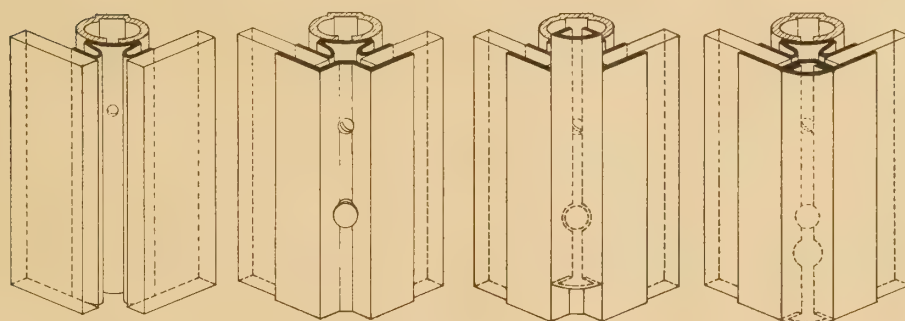
No. 17 A sturdy bar for joining two plates of glass that meet at an angle reverse from the ordinary corner shown on page 19.



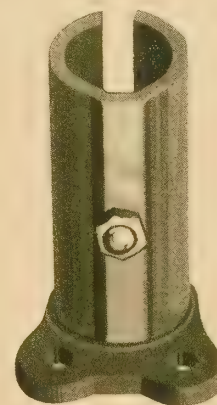
No. 18 An extra heavy reverse bar that provides a wide grip on the glass. The stiffener makes it appropriate where severe wind pressure is encountered.



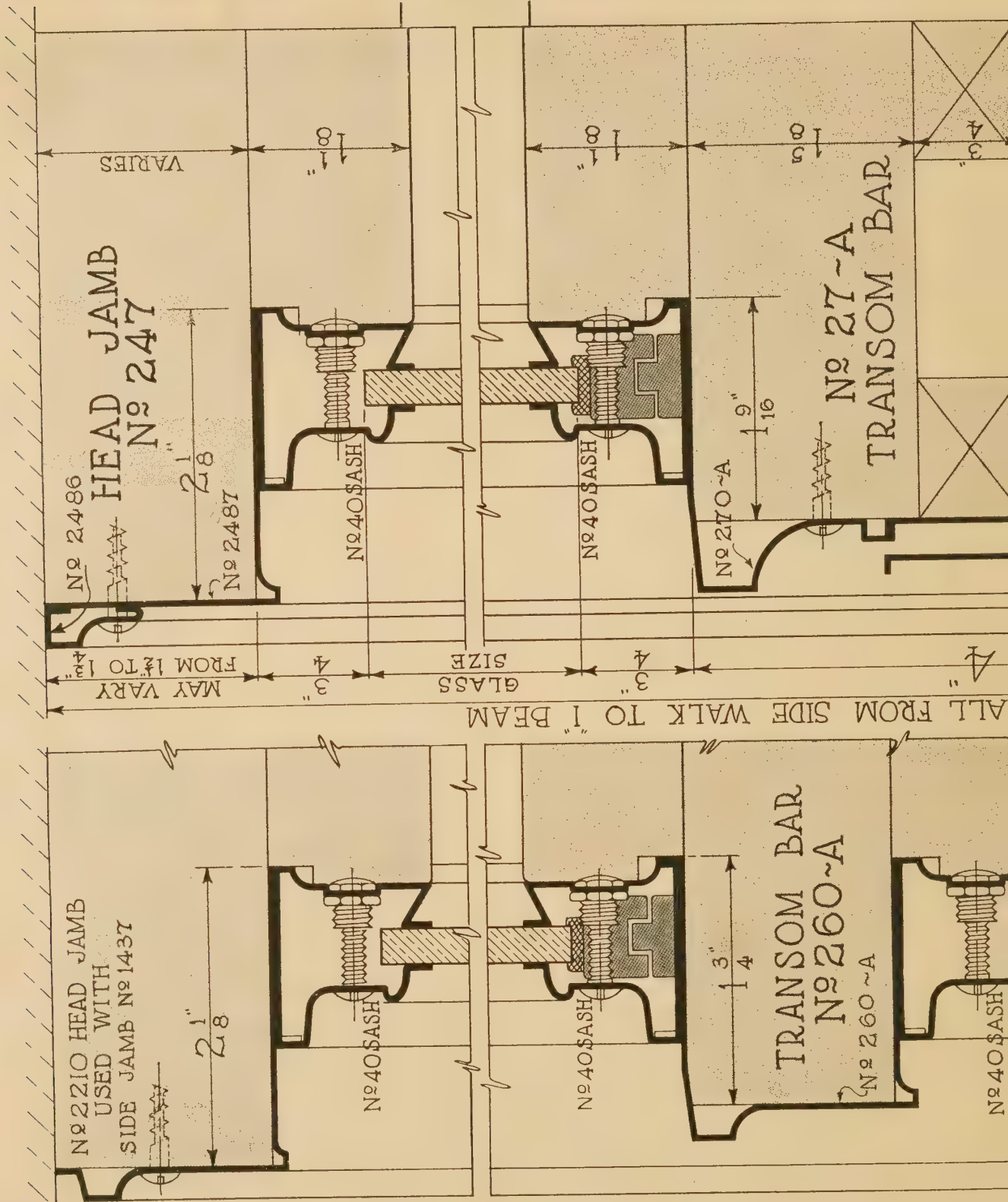
No. 38-C This is the smallest reverse bar we manufacture and should be used only for uniting small plates of glass.

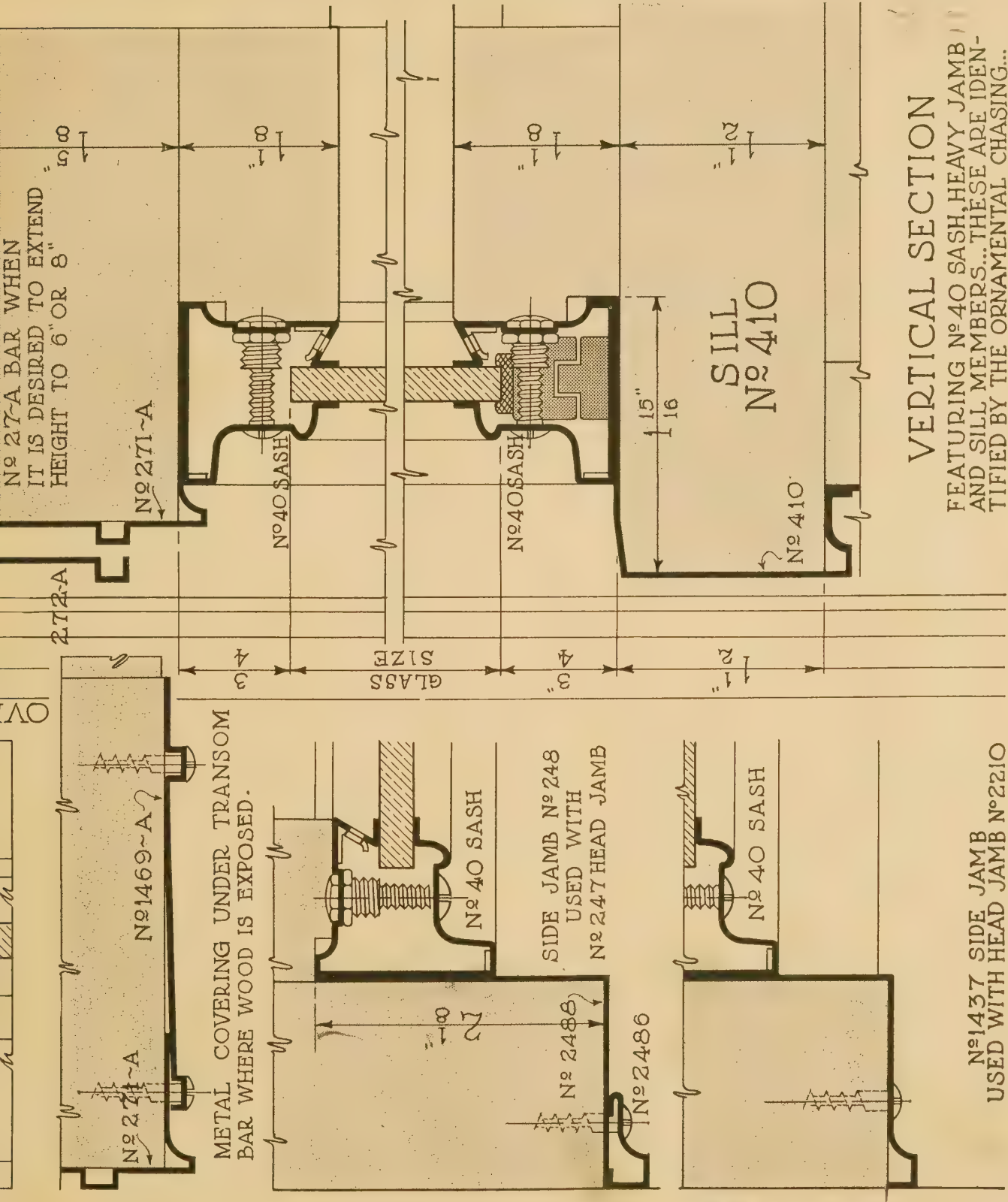


Frequently a corner or division bar must be installed in front of a supporting post or other obstruction so that it would be impossible to install the bars in the regular way. For use in such cases, we have designed and patented special bars to be installed from the outside. These bars are assembled by means of slotted-head machine screws which engage barrel nuts solidly attached to the back member. The back member is first put in place, then the glass is set and the face member installed by turning the machine screws. The face piece is provided with fixed buttons. When the bar is thus assembled, the small finishing bead member is slipped over these buttons so the bar gives the same appearance as one built and installed in the regular way. All bars except Nos. 19-A and 16 may be furnished to be set from the outside if desired.



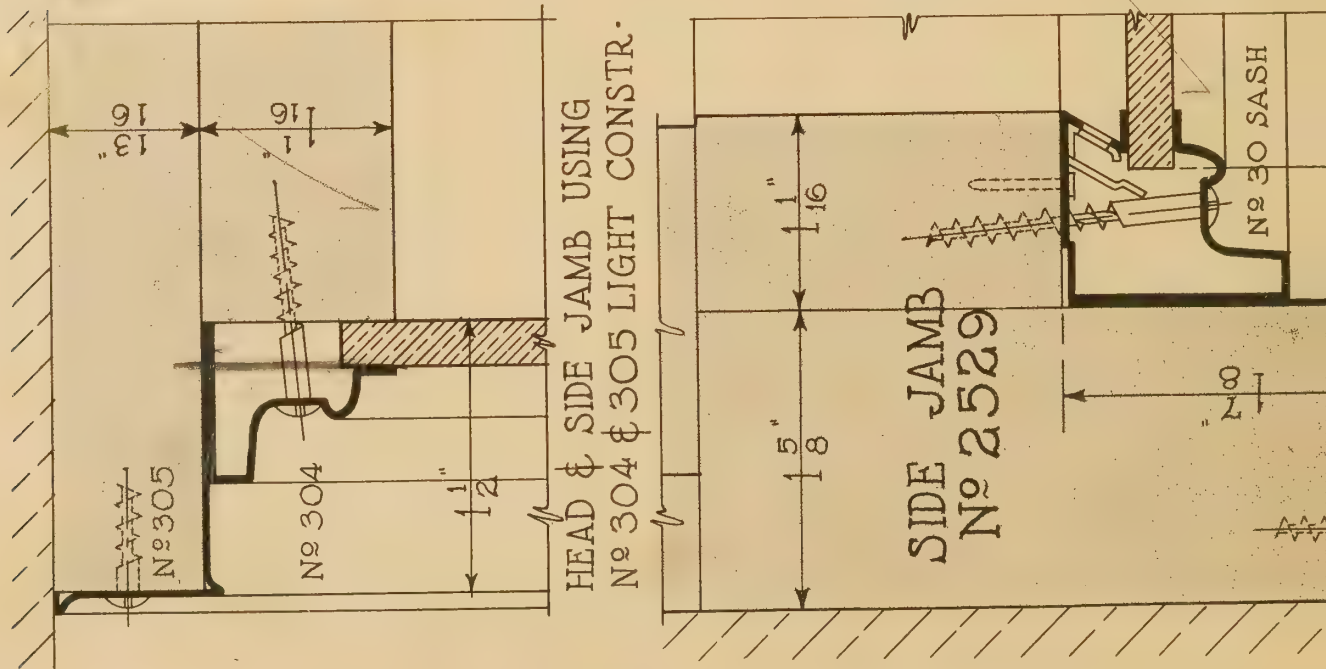
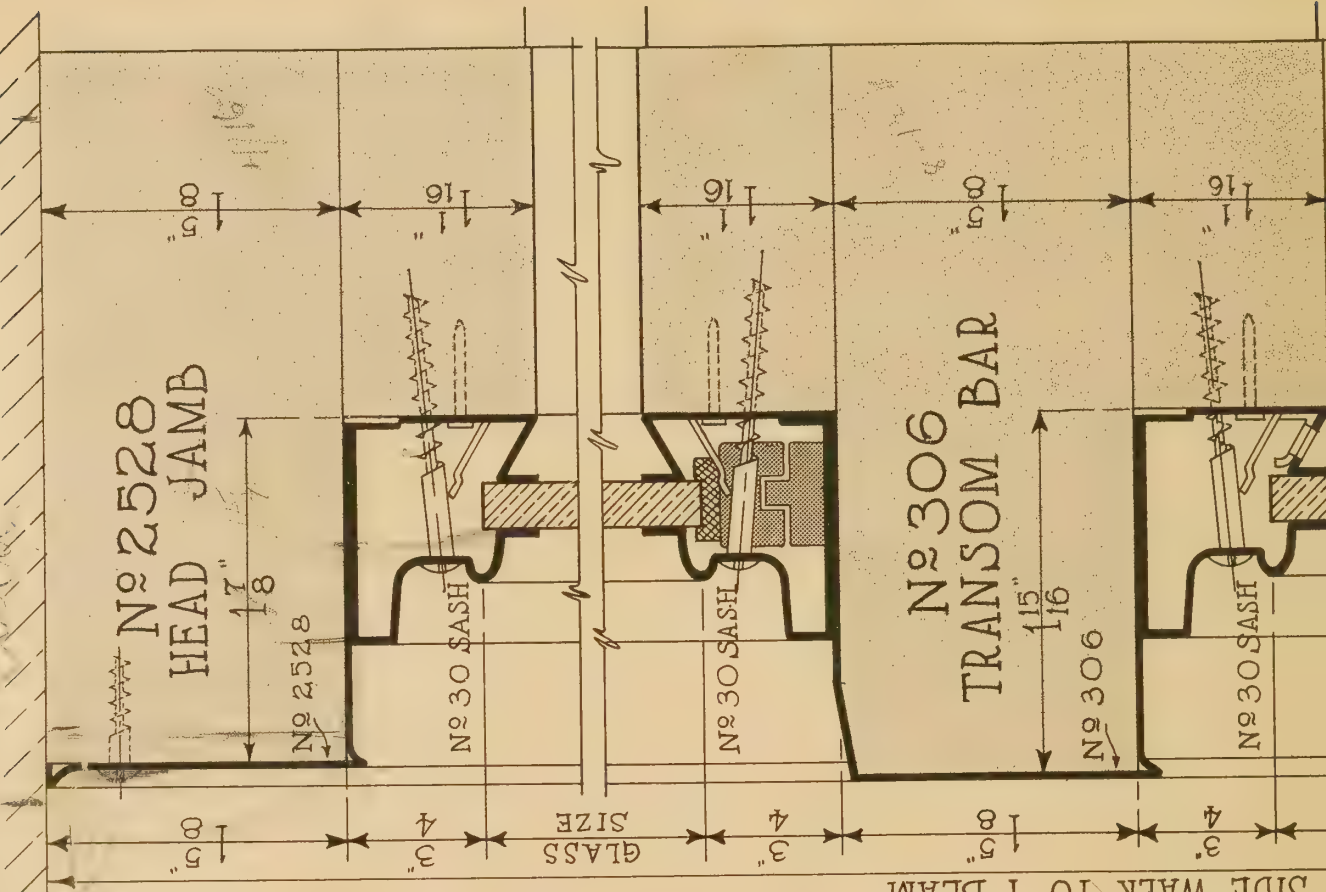
The members shown above are inserted in the ends of the tubular reinforcement of bars, thus forming a secure anchorage.

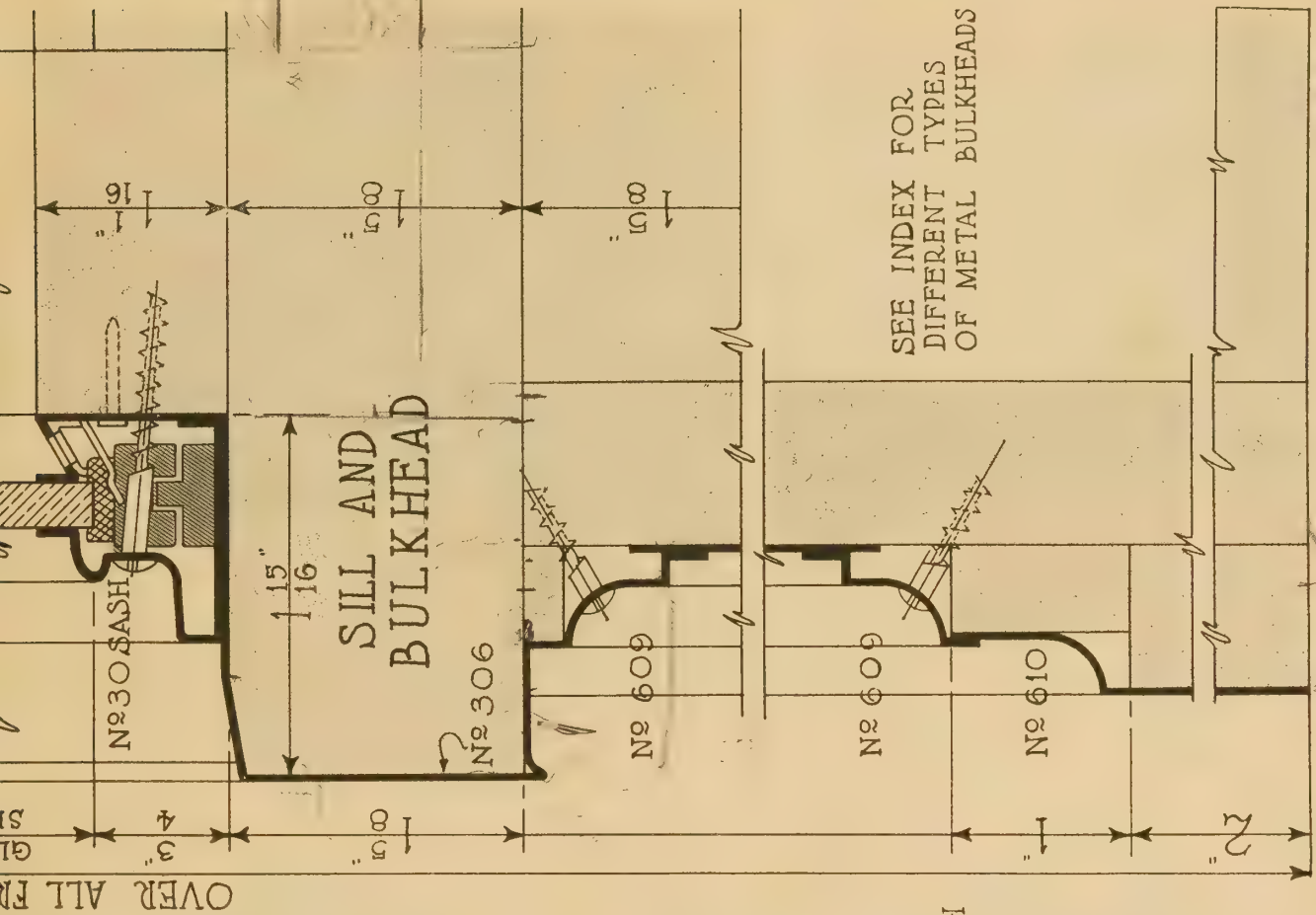




VERTICAL SECTION

FEATURING N° 40 SASH, HEAVY JAMB AND SILL MEMBERS... THESE ARE IDENTIFIED BY THE ORNAMENTAL CHASING...



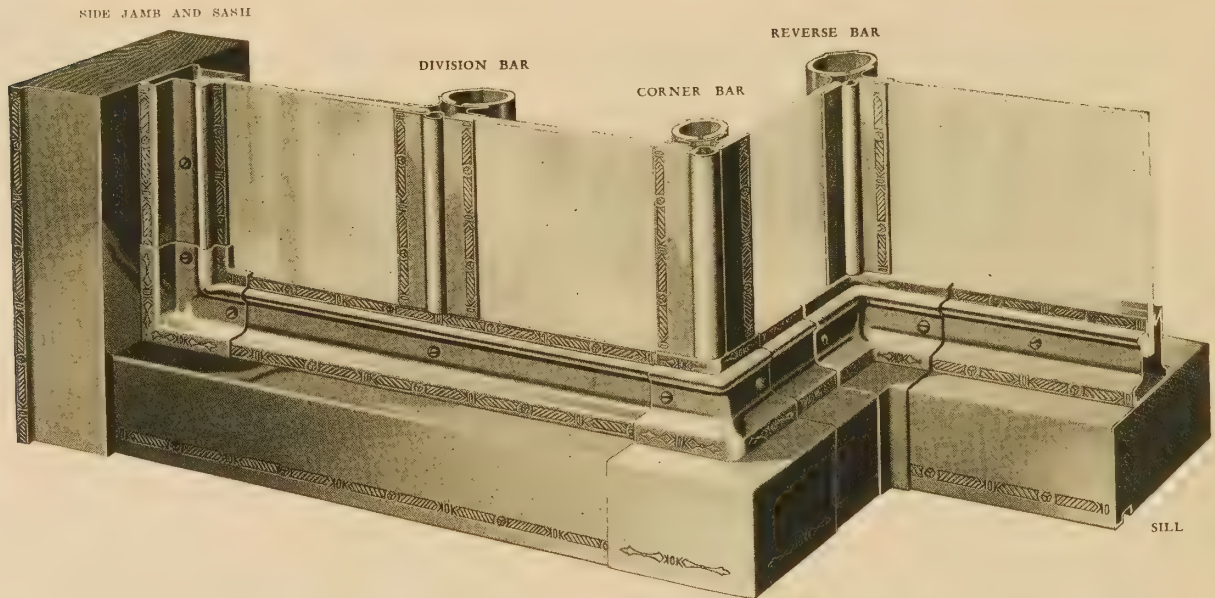


SEE INDEX FOR
DIFFERENT TYPES
OF METAL BULKHEADS

DETAIL SHOWING
MARBLE BASE IN
CONNECTION WITH
KAWNEER SILL.

HEIGHT OF MARBLE

$$\begin{array}{r} 37720 \\ 70-624 \\ 41-20-444 \\ 100000 \\ 3772 \\ \hline 6228 \end{array}$$

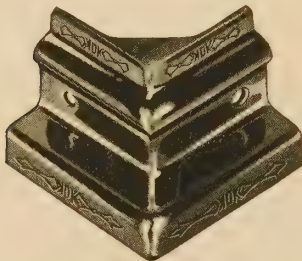


ASSEMBLY OF BARS, SASH, JAMB AND SILL

The photographic view above shows the relative position of Kawneer store front members and location of the ornamental chasing. When properly fabricated these units form a comely

and efficient setting for any type of store front. They are easily installed and require no upkeep. Compare the caps shown on model with illustration below.

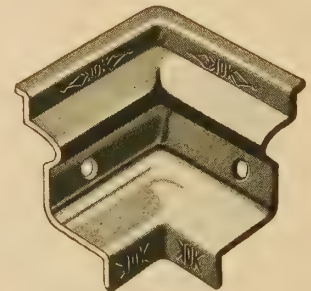
CAPS



HORIZONTAL CAP for use at corners concurrent with corner bars. Compare with model above.



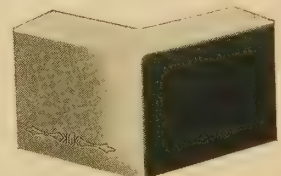
VERTICAL CAP for connecting vertical sash with horizontal sash. See model above.



REVERSE HORIZONTAL CAP for use at corners concurrent with reverse bars. See model above.

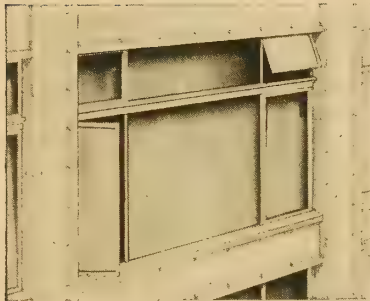


STRAIGHTWAY CAP used to join sash where lengths are too great for one piece.



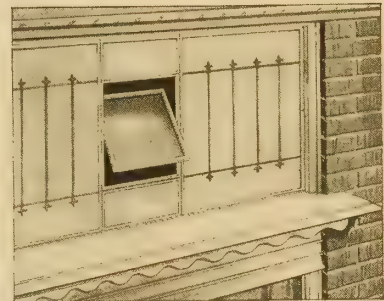
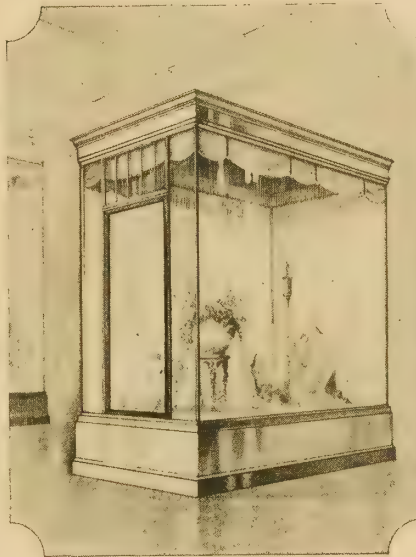
SILL CAP used at corners where sill mouldings meet. See model above.

HINGED SHOW CASE DOORS, WINDOWS AND PIVOTED VENTILATORS



The elevation above shows application of doors to windows above street level.

At right is view of show case door in use. Note its unobstructive lines.

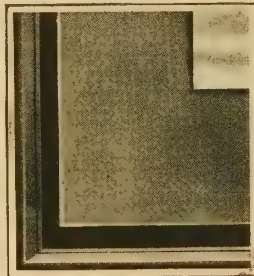


Above view features small ventilator inserted in transom glass over store front. The vents are sturdily built of solid nickel-silver.

HOW TO ORDER SHOW CASE DOORS

Positively state how the door is to be set at each side, top and bottom. If set directly against jambs or sill, specify without flanges and the frame will be made flat with holes punched for wood or machine screws. If set in Kawneer bars or sash at any or all sides specify with flanges and state what Kawneer members are to be used and on which sides. If a corner bar is used at either side, give degree of angle as well as the number of the bar.

If the door is set in Kawneer members, the frame is provided with flanges for the sash or bars to grip. All bars made at an angle of less than 90° and No. 9 bar made less than 110° require a special flange. Regular flange can be used with all bars and sash except as mentioned above. Stationary transoms can be furnished above doors all in the same frame, but if this transom is not desired and the door does not extend to height of plate glass No. 21-B division bar without the stiffener may be used to hold top of frame and bottom of transom glass.

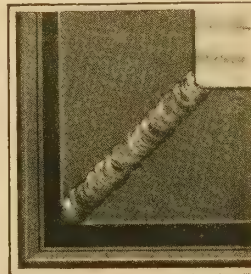


Above illustration shows welded joint ground and polished

Dimensions should be given to points shown on details, that is to extreme edge of door frame or of flange, if such is used.

Be sure to state at which side the door or window will be hinged and if pivoted tell whether at top and bottom or at sides.

The maximum area of No. 70 Construction is 15 square feet and the maximum width of No. 70 is 33 inches. When necessary to fill a wider opening with a show case door we suggest that a double door be used with single frame, one door being held in position with top and bottom shot bolts when not in use, and the other door locked into this one. Stock sizes hinged at left 24" x 60" and 30" x 66".

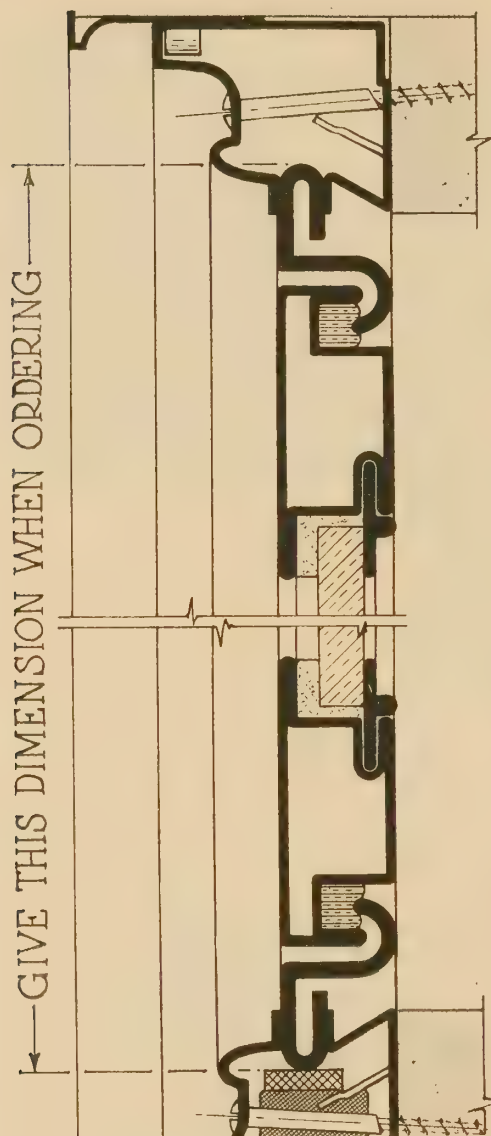


This shows welded joint neither ground nor polished, preferred by many

No. 57 Pivoted Ventilator is furnished with flanges only and can be pivoted top and bottom or on sides, also can be hinged on sides to swing out or on bottom to swing in. Glass area should not exceed 6.7 square feet. When ordering specify as per sketches, 57-A, 57-B, 57-C and 57-D. Stock sizes 24" x 30" and 30" x 24".

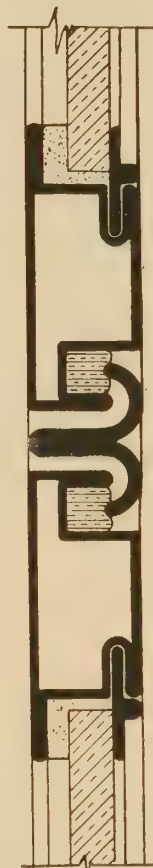
No. 70 SHOW CASE DOOR

With Flange
FULL SIZE



GIVE THIS DIMENSION WHEN ORDERING

VERTICAL SECTION



ABOVE BAR USED
WHEN TRANSOM
IS DESIRED



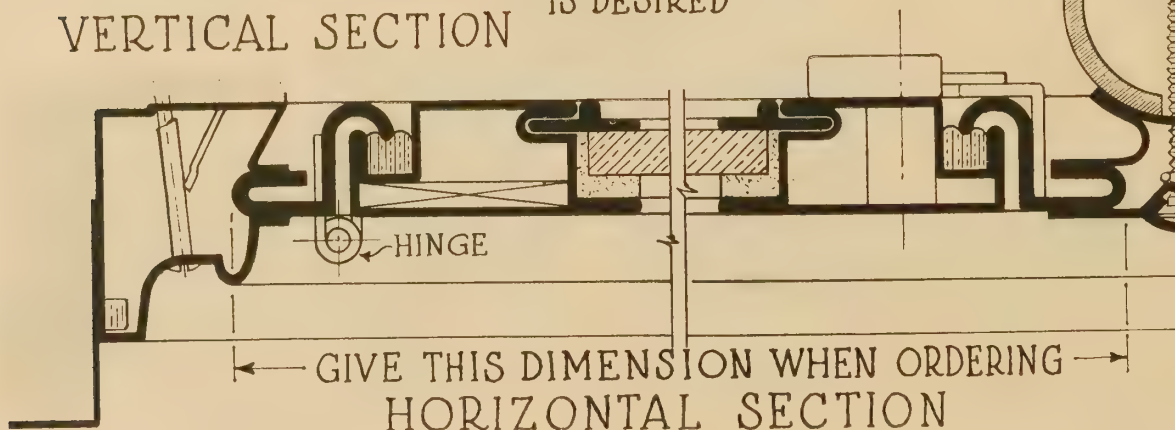
Hinged at side without
transom



Hinged at side with transom

This Show Case Door is constructed of Solid Nickel-Silver. It is compact, occupies but little space and is equipped with all necessary hardware. The felt weathering member makes it dust proof—a very desirable feature. The miters at the corners are strongly welded, the weld being ground or left in its natural state, as preferred. The glazing is very easily accomplished and dust proof.

Stock sizes hinged at left,
(without transom)
24" x 60" and 30" x 66"



GIVE THIS DIMENSION WHEN ORDERING
HORIZONTAL SECTION

No. 70 SHOW CASE DOOR

Without Flange

FULL SIZE



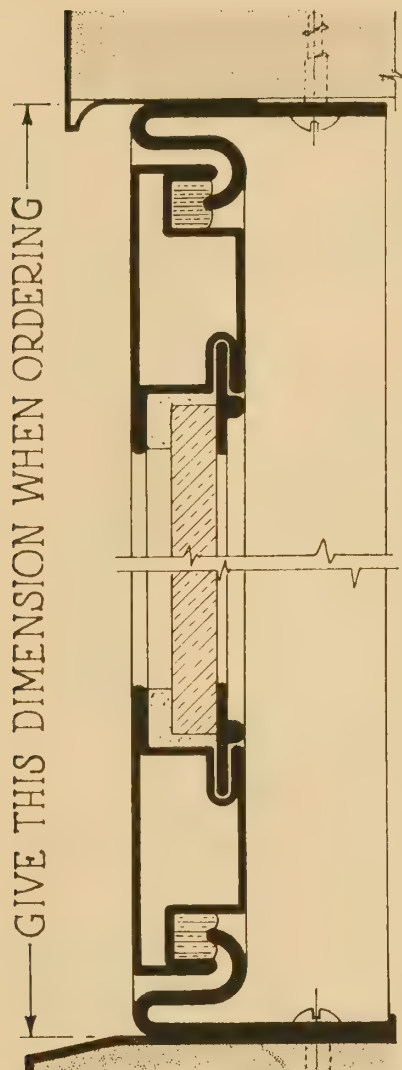
Hinged at side without transom



Hinged at side with transom

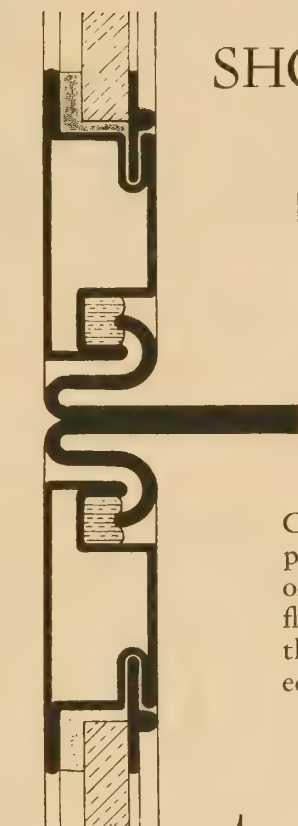
Constructed similar to that shown on preceding page. The flange at sides is omitted to permit installation against flat surface. Instructions for ordering these doors should be carefully followed.

Stock sizes hinged at left, (without transom)
24"x60" and 30"x66".



GIVE THIS DIMENSION WHEN ORDERING

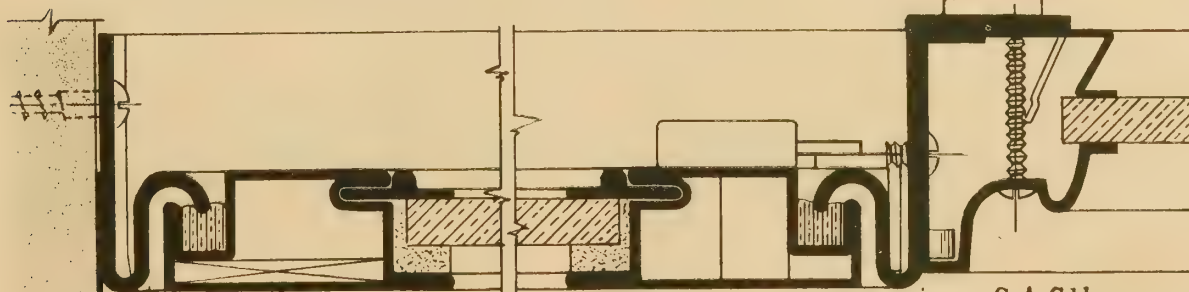
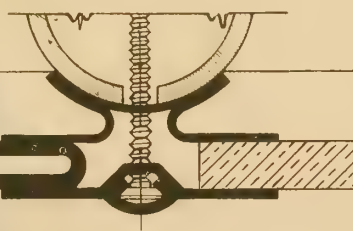
VERTICAL SECTION



TRANSM BAR



DIVISION BAR
CONNECTION

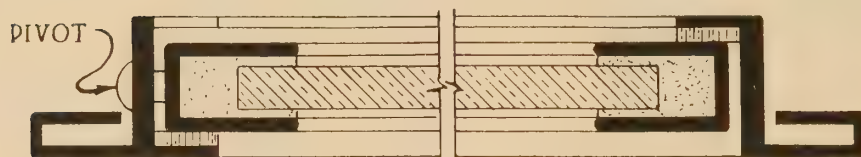


GIVE THIS DIMENSION WHEN ORDERING
HORIZONTAL SECTION

SASH
CONNECTION

No. 57 PIVOTED VENTILATOR

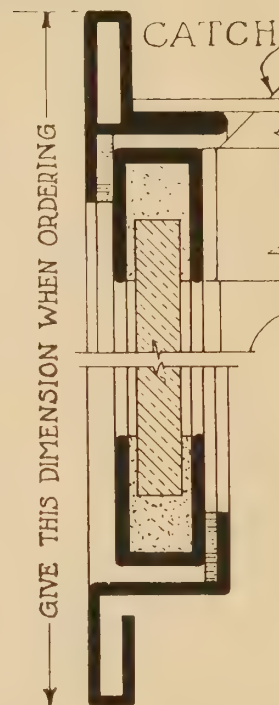
FULL SIZE



GIVE THIS DIMENSION WHEN ORDERING

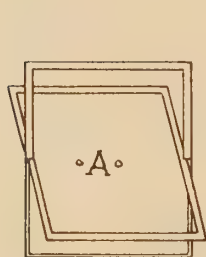
HORIZONTAL SECTION

Constructed of solid Nickel-Silver, this ventilator serves excellently when used in bulkheads, transoms, etc. Equipped with all necessary hardware. Not furnished for glass area exceeding 6.7 square feet. Stock sizes 24" x 30" and 30" x 24".



GIVE THIS DIMENSION WHEN ORDERING

VERTICAL SECTION



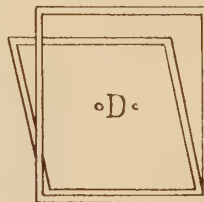
No. 57-A Pivoted at sides to swing in at top.
Maximum width, 30"



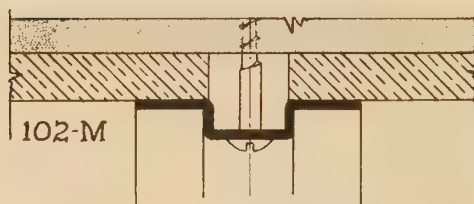
No. 57-B Hinged at sides to swing out
Maximum width, 24"



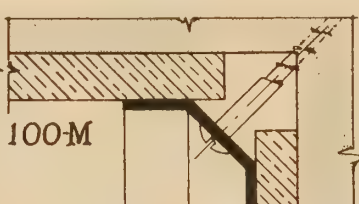
No. 57-C Pivoted at top and bottom.
Maximum width, 30"



No. 57-D Hinged at bottom to swing in.
Maximum width, 30"



102-M

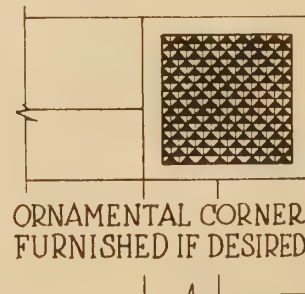


100-M

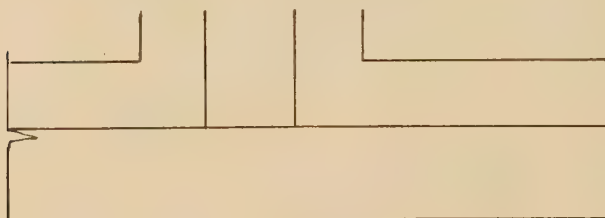
MIRROR MOULDINGS

FULL SIZE

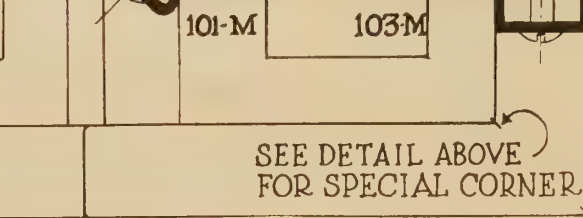
A splendid combination of mouldings for holding mirrors, marble, etc., against columns and walls. The ornamental corner at right can be furnished for slight additional cost. It will eliminate mitered corners.



ORNAMENTAL CORNER
FURNISHED IF DESIRED



101-M



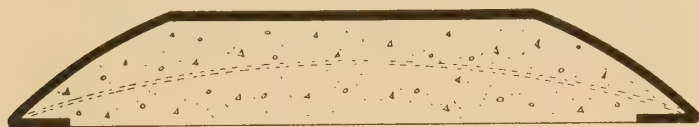
103-M

SEE DETAIL ABOVE
FOR SPECIAL CORNER

THRESHOLDS, KICKPLATES, ETC.

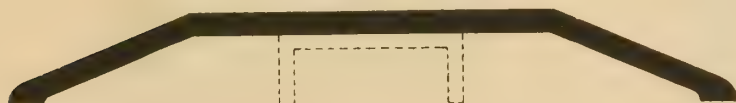
THRESHOLDS ARE FULL SIZE

Types A, B, C and D are cold rolled from heavy brass while No. 1, No. 2 and No. 3 are extruded. They can be furnished in any length and shipped immediately upon receipt of order.



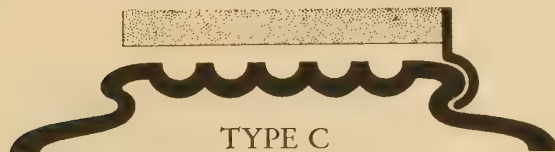
TYPE A

Fibre plaster reinforced. For $1\frac{3}{4}$ " and $2\frac{1}{4}$ " doors.



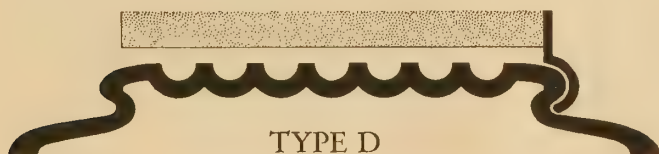
TYPE B

Reinforced with steel channel where screw occurs.
For $1\frac{3}{4}$ " and $2\frac{1}{4}$ " doors.



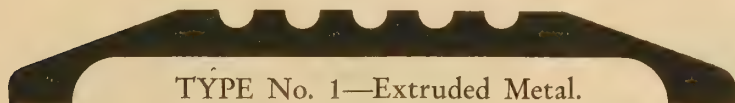
TYPE C

Provided with dust and weather strip plate. For $1\frac{3}{4}$ " door.

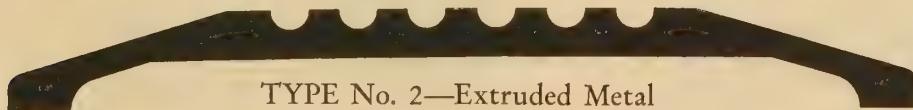


TYPE D

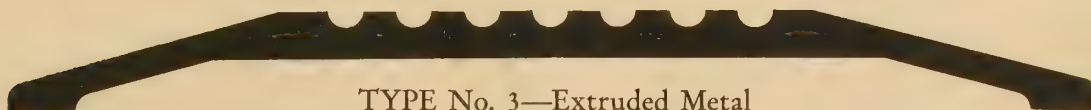
Provided with dust and weather strip plate. For $2\frac{1}{4}$ " door.



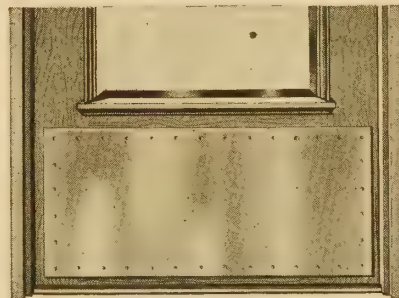
TYPE No. 1—Extruded Metal.



TYPE No. 2—Extruded Metal



TYPE No. 3—Extruded Metal



KICKPLATES

Cut with square edges from .050 bronze, brass or copper. Holes drilled and screws furnished.

STANDARD SIZES

28x10	28x12	28x14	28x16
34x10	34x12	34x14	34x16
40x10	40x12	40x14	40x16

Other sizes furnished if desired.

PUSH PLATES AT LEFT

Cut with square edges from .050 bronze, brass or copper. Holes drilled and screws furnished. Made in any size.



No. 1344 Moulding

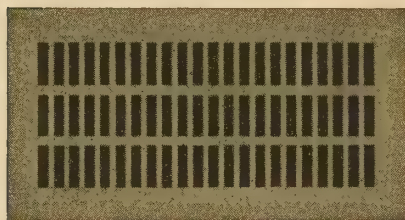
This interlocking member is used with thresholds C and D. It serves as a weather and dust bar.

STAMPED AND SPECIAL GRILLES

Below are shown 5 standard types of grilles, pleasing in design and sharply cut from heavy bronze or copper. These grilles are furnished in .050 and .109 metal, the maximum size in either gauge being 24"x114".

If the .050 grilles are made in sizes exceeding 24"x24", reinforcements will be attached to the back to provide ample strength.

Extra charge will be made for grilles furnished in dimensions other than those shown below as stock sizes.

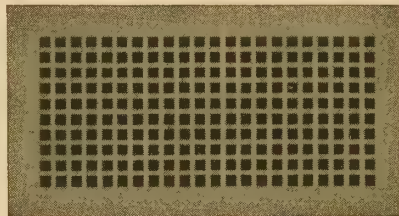


TYPE 1-G

Rectangular Interstices

Stock Sizes

11" x 5" 18" x 9" 24" x 10"



TYPE 2-G

Small Square Interstices

Stock Sizes

11" x 5" 18" x 9" 24" x 10"

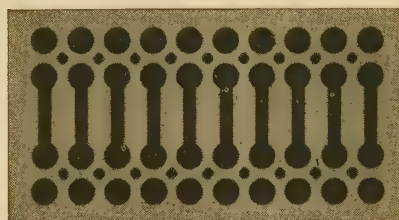


TYPE 3-G

Large Square Interstices

Stock Sizes

11" x 5" 18" x 9" 24" x 10"

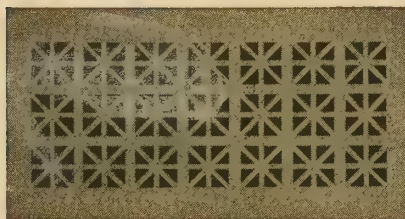


TYPE 4-G

Ball and Slot Interstices

Stock Sizes

11" x 5" 18" x 9" 24" x 10"



TYPE 5-G

Clustered Union Jack

Stock Sizes

11" x 5" 18" x 9" 24" x 10"



TYPE—SPECIAL

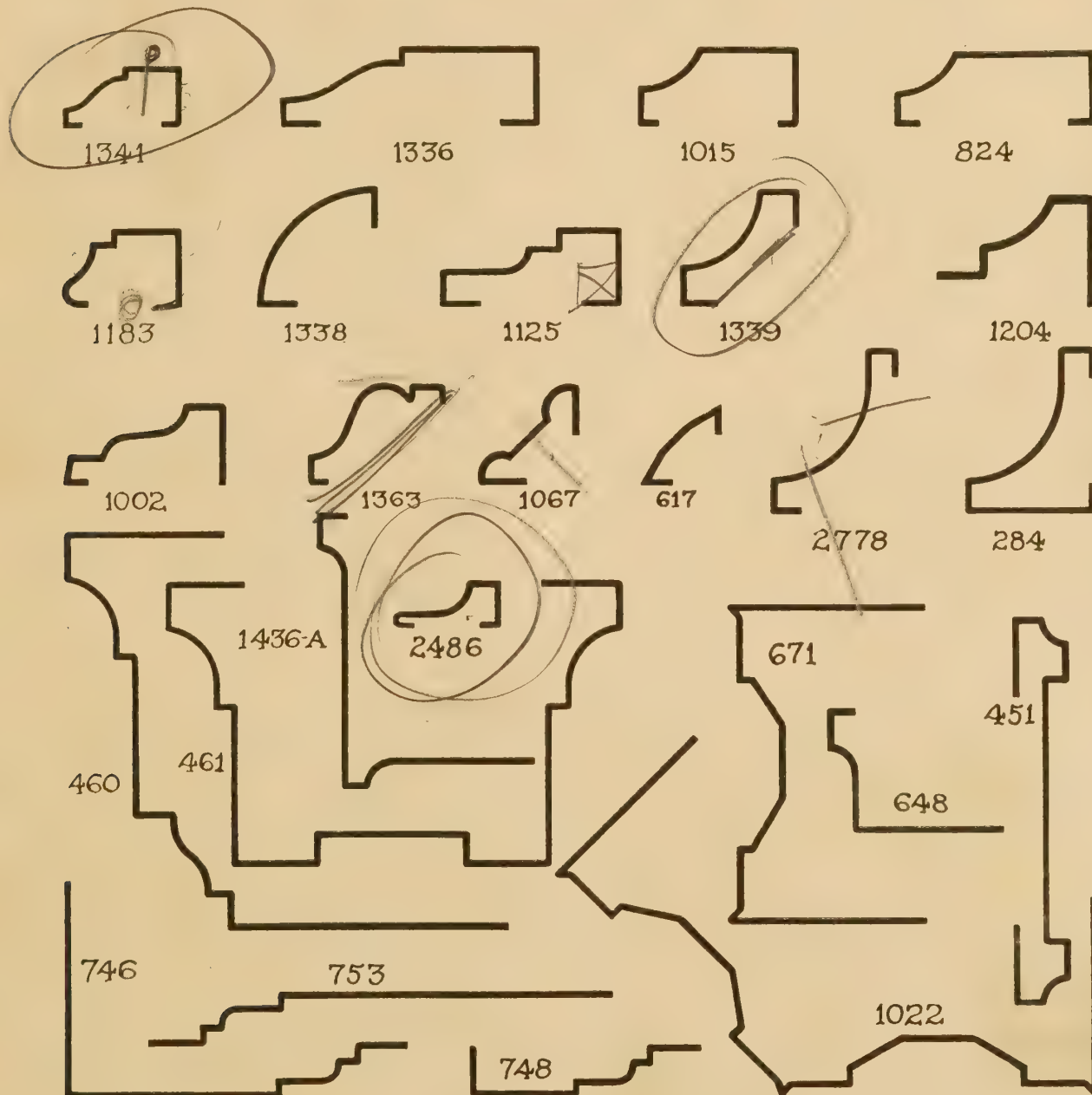
We are equipped to cut special designs to meet architects' requirements. Cost for this work is on a time and material basis.

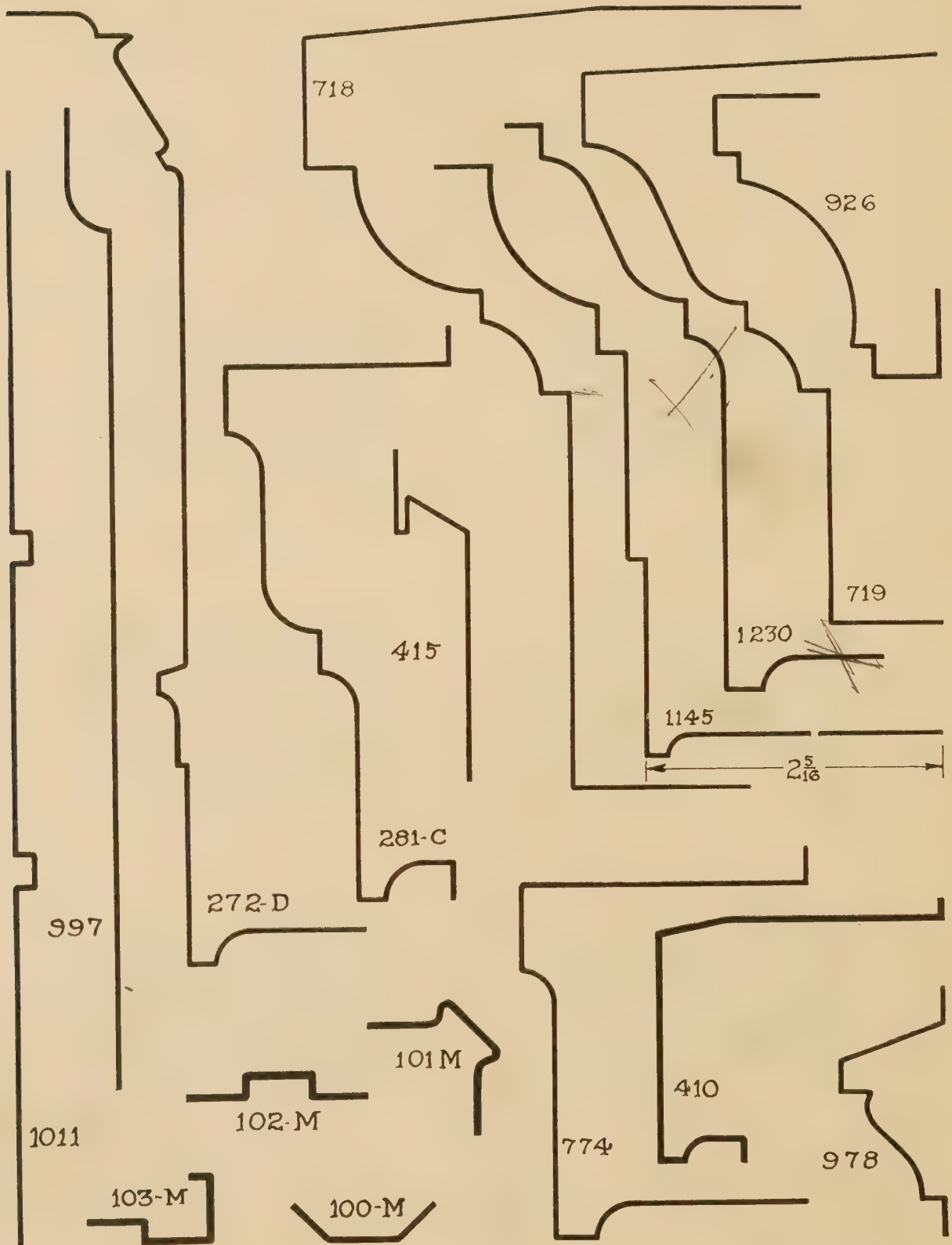
ARCHITECTURAL MOULDINGS

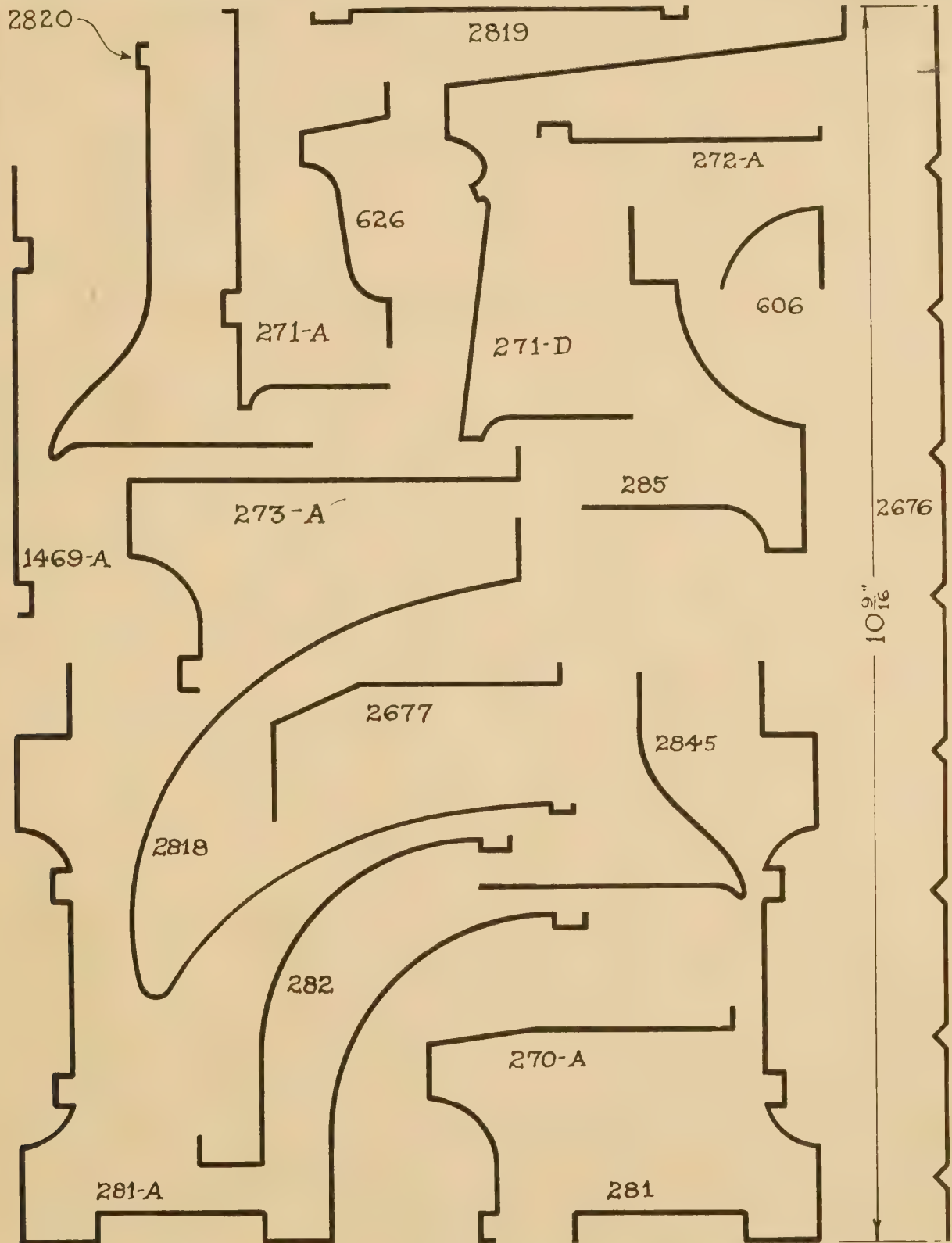
FULL SIZE

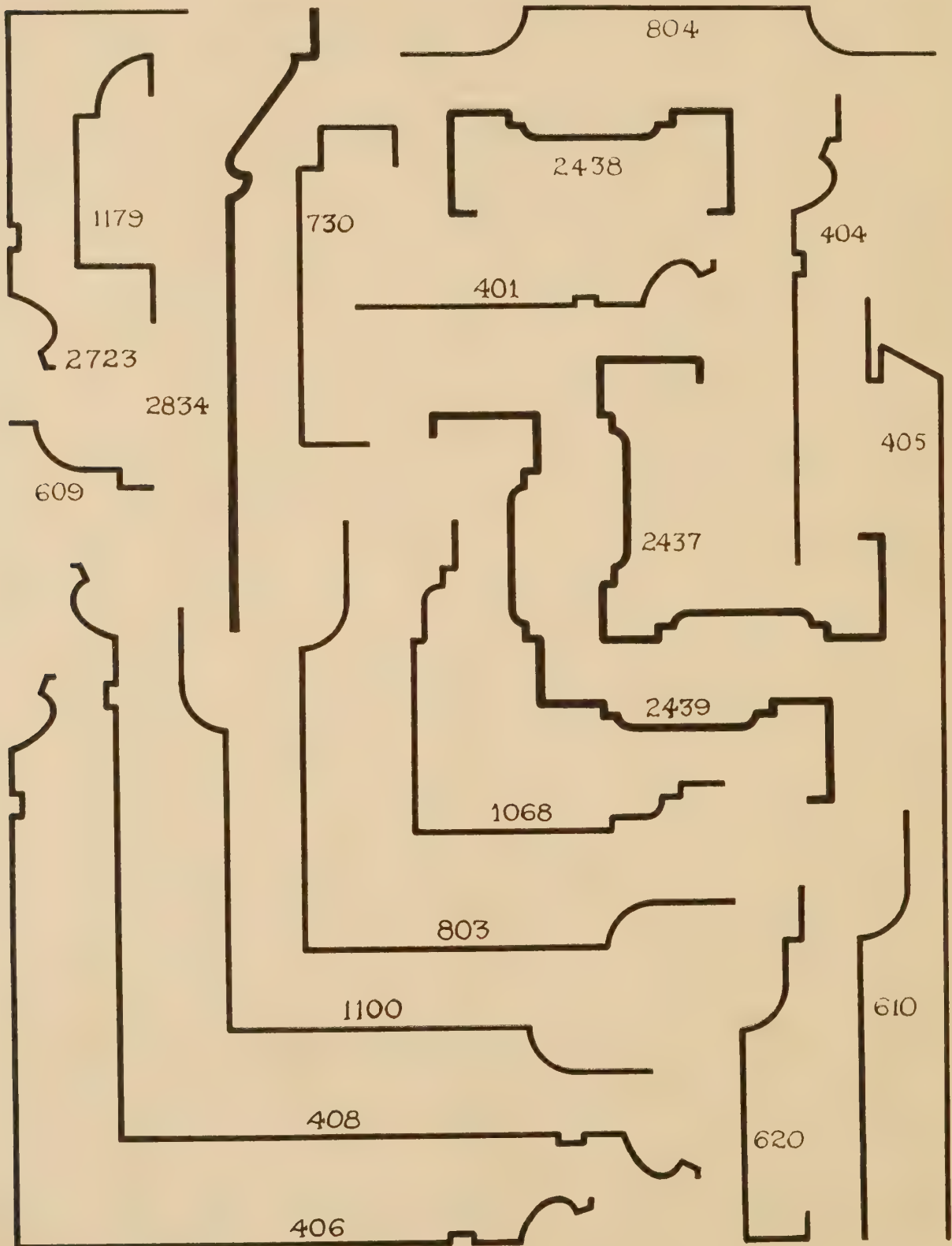
On the following seven pages we show a variety of cold rolled mouldings, many of which are designed along architectural lines. These mouldings are carried in stock for prompt shipment in solid bronze or copper. With these mouldings or by making certain adjustments,

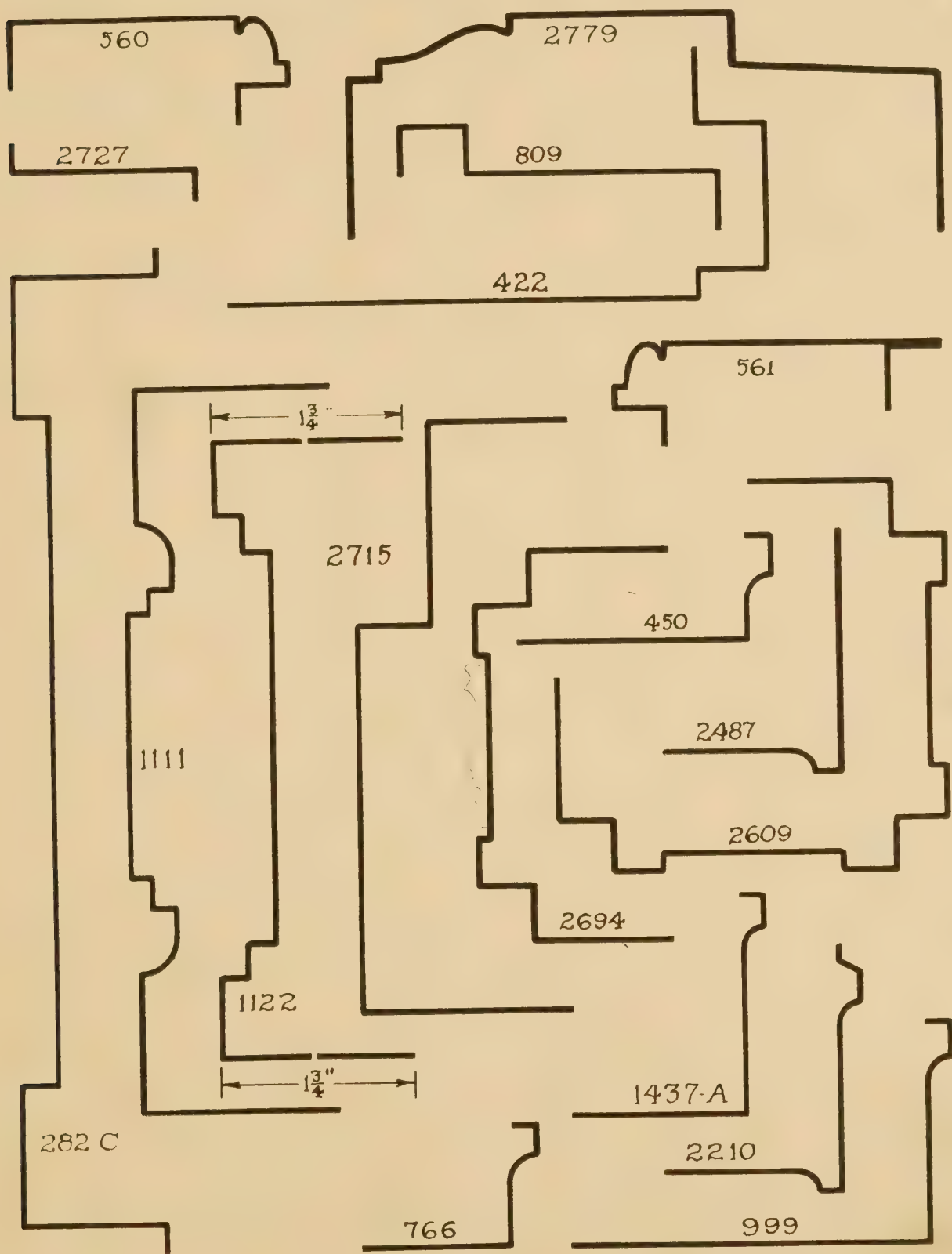
many practical combinations are obtained, which can be used on various parts of buildings, both exterior and interior. We will gladly co-operate with architects by offering suggestions for many different treatments to meet their particular requirements.

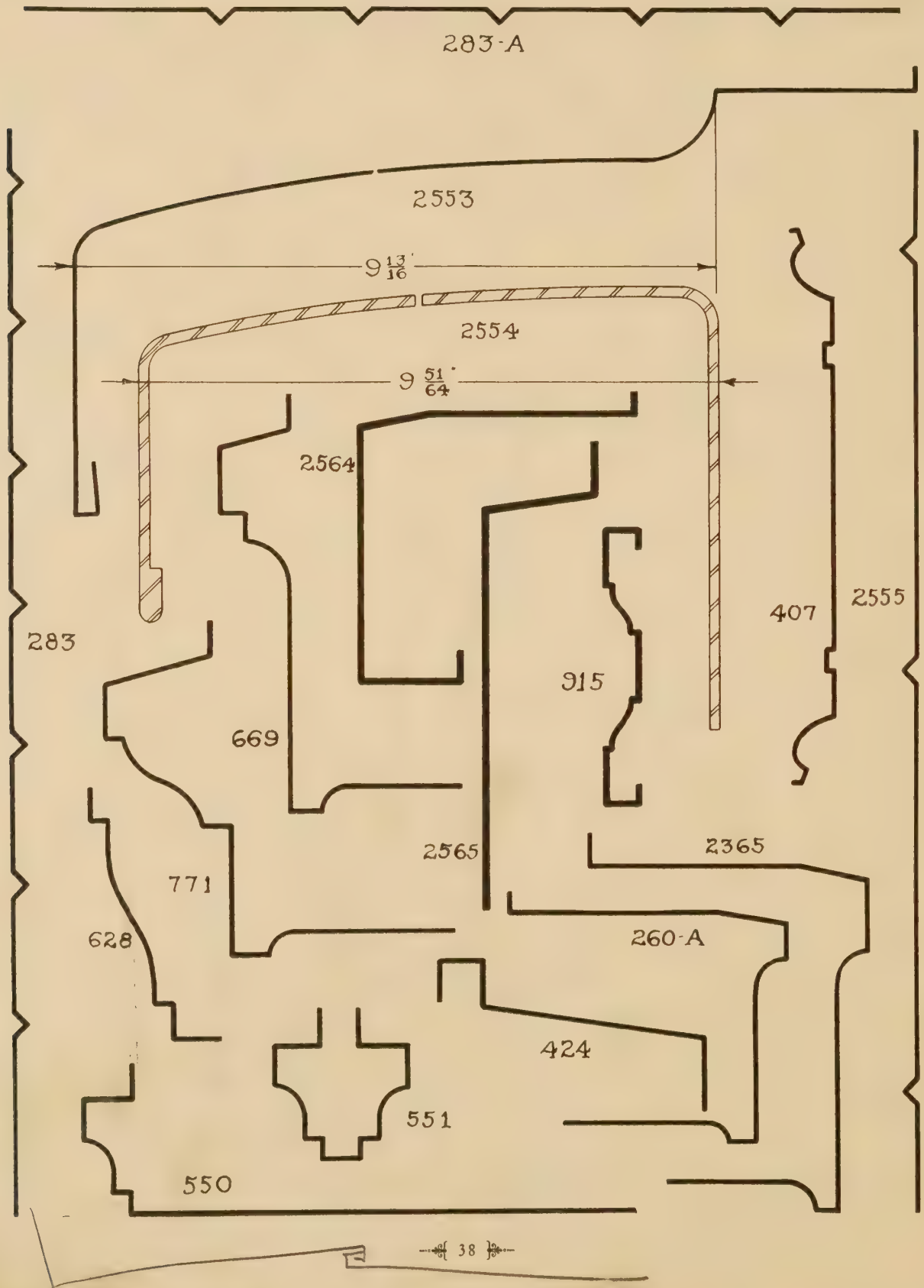




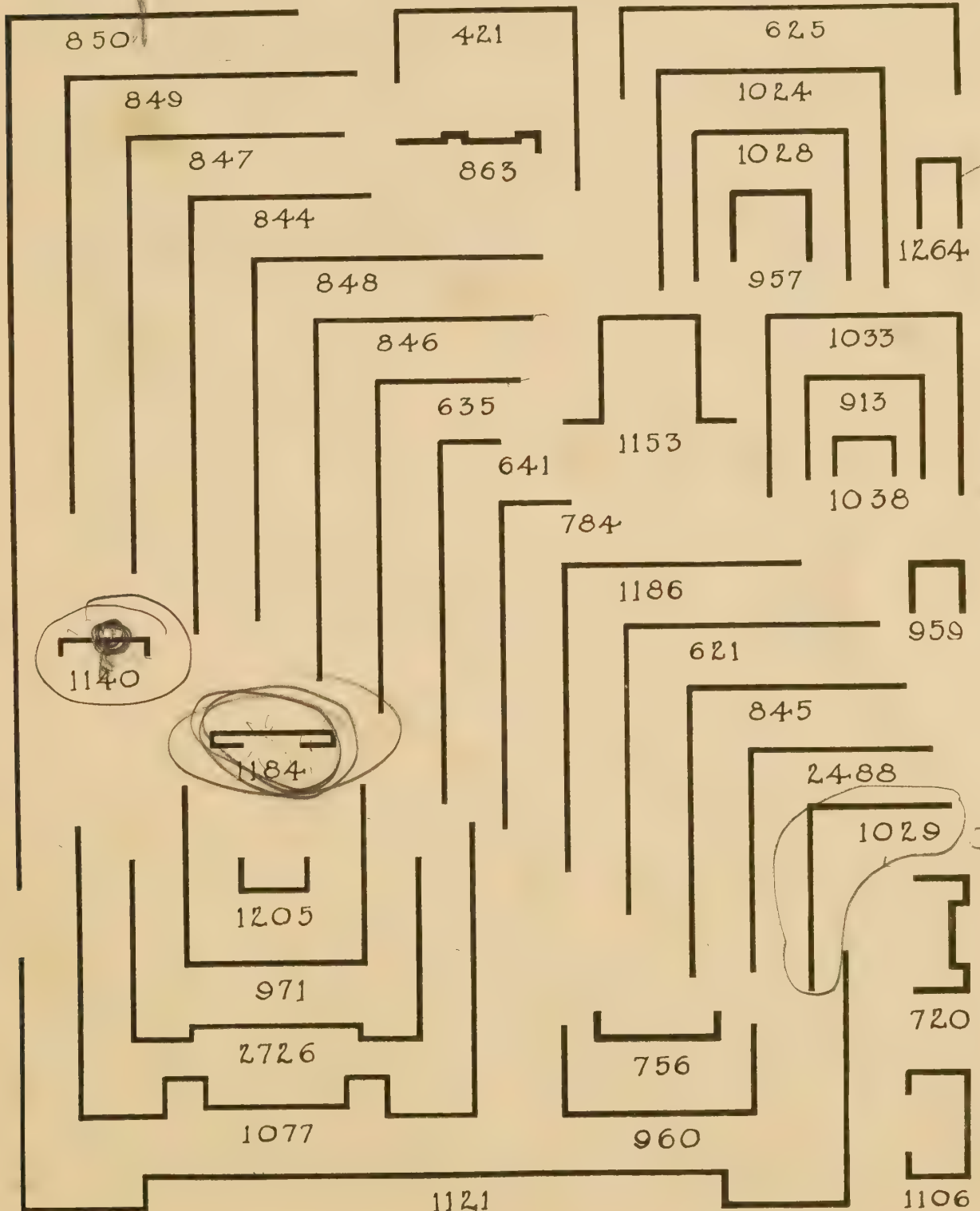


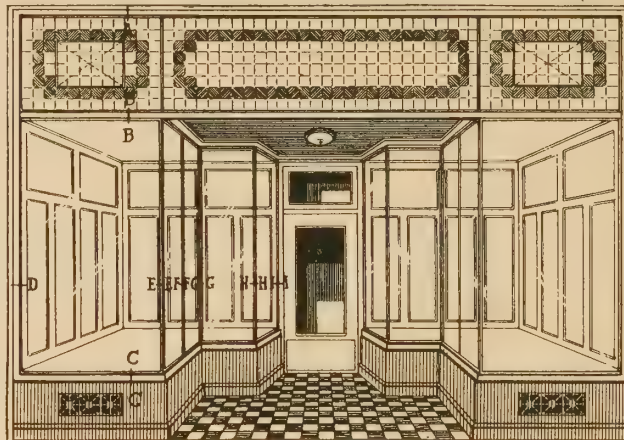
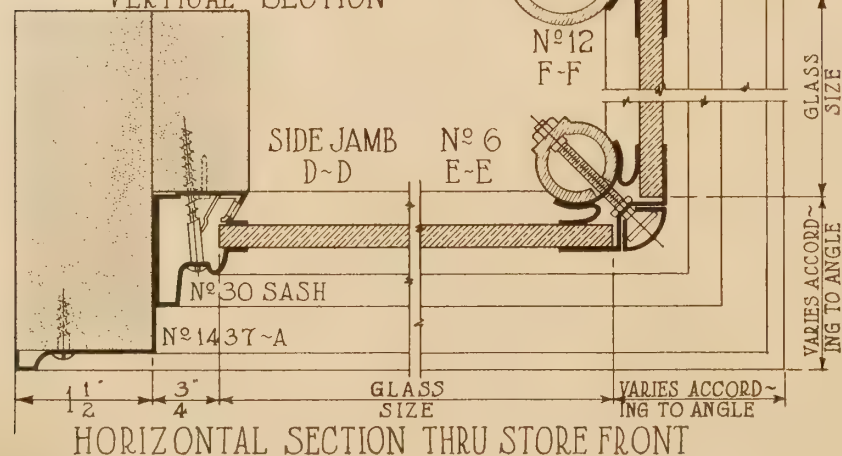
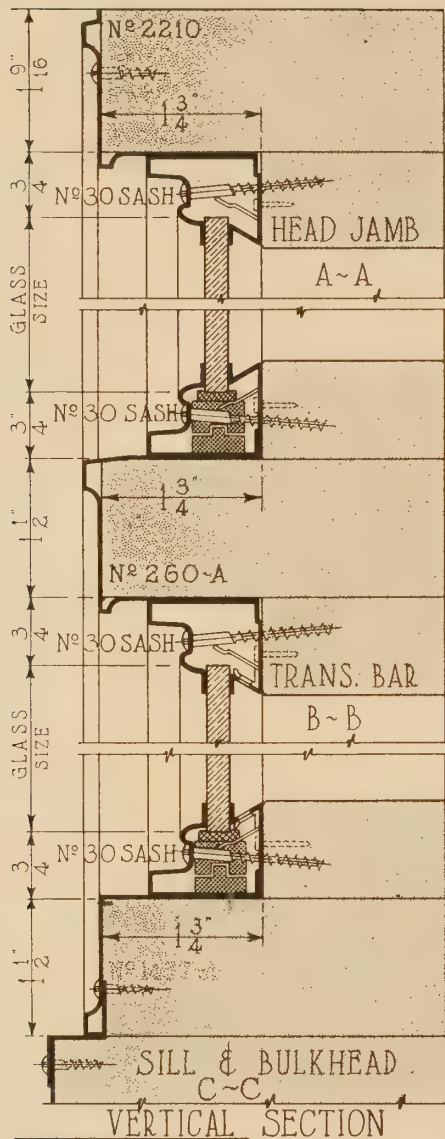




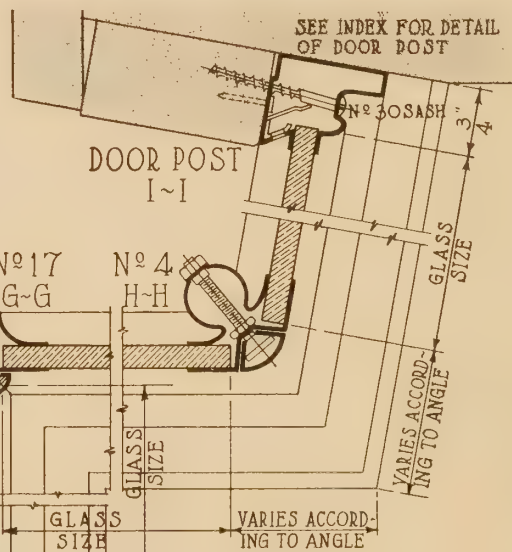


ANGLES AND CHANNELS





TYPICAL ELEVATION



WHERE KAWNEER MEMBERS ARE USED

ONE-HALF FULL SIZE DETAILS

The elevation and details above show where Kawneer members are used. Though but one type of transom bar, side and head jamb, and bulkhead is featured, we call your attention to other styles listed in index, page 62.

INSTRUCTIONS FOR ORDERING KAWNEER STORE FRONTS

We recommend, wherever possible, that a specific order be forwarded covering the material wanted and outlining definite cutting sizes. This suggestion is made with the view of bettering our service by avoiding delays which occasionally occur when entering an order in the factory, because of incomplete information.

When ordering, if possible, send us blue prints showing a dimensioned plan and elevation of the front. To accurately cut out material, we cannot determine sizes by scaling a blue print, for when doing so, we must add a safe margin for possible shrinkage of the print. When blue prints cannot be sent, forward a rough sketch showing elevation and plan and indicate all sizes thereon. This is essential so that we may supply the necessary caps and other accessories.

Head Jamb Mouldings—Order the extreme width of the opening.

Transom Bar Mouldings—Order the extreme width of the opening.

Side Jamb Mouldings—Order the extreme height of the opening, when using copper bulkhead construction.

Note—Side Jamb Mouldings can stop at the top of the sill when marble, brick or wooden bulkheads are used.

Note—When ordering awning bar mouldings, give the extreme opening size to which we shall make necessary additions for the extension of the hood members; also, we shall include caps to cover the exposed woodwork at the end of the hood.

Corner, Reverse, Division and 3-Way Bars—The height of all bars should be the same as the glass height. Give exact angle of corner,

reverse and 3-way bars. (When it is impossible to measure angle properly, send sketch.)

Copper Bulkheads can be ordered as a unit by giving the sill measurements, height from top of sill to sidewalk, style or number. Also submit a rough sketch showing the number and location of mullions.

Pivoted or Hinged Sash, and Show Case Doors—See page 27 for special instructions.

Curved Material—Either state definitely or submit sketch showing whether the curve is horizontal or vertical. Also give radius and show to what point on the moulding the radius is taken, provided the curve is regular and uniform. If the curve is not regular, submit a full-size detail or template. Do not fail to advise us whether the sizes given are glass sizes or size of openings.

When ordering or requesting prices on any special work, give all information that relates in any way to the store front. By doing this our shipment to you or the information you request will not be delayed while we are writing for more definite data.

Give shipping directions, stating whether order is to be shipped by express or freight. *Unless specific directions are given we shall ship by freight.*

All copper and bronze materials will be furnished in burnished (polished) finish when no other finish is specified.

IMPORTANT—When ordering sash for which slide can be furnished, state definitely as to whether or not slide is wanted. *Sash is shipped without slide unless specified on order.*

WHAT BARS TO SELECT

TABLE OF BARS

In order to facilitate the selection of proper bars we submit a table which we believe will be of great assistance in ordering. We are also submitting a formula as an explanation of this table.

Bar. No.	A	B	C
3-B	48 in.	100 sq. ft.	60 sq. ft.
4-B	54 in.	100 sq. ft.	60 sq. ft.
5-B	54 in.	100 sq. ft.	60 sq. ft.
6-B	90 in.	140 sq. ft.	90 sq. ft.
7-B	96 in.	140 sq. ft.	80 sq. ft.
8-B	108 in.	175 sq. ft.	100 sq. ft.
9-A	108 in.	200 sq. ft.	125 sq. ft.
10	60 in.	100 sq. ft.	60 sq. ft.
11-B	42 in.	100 sq. ft.	60 sq. ft.
12-B	90 in.	130 sq. ft.	70 sq. ft.
13-B	108 in.	180 sq. ft.	90 sq. ft.
17-B	90 in.	100 sq. ft.	60 sq. ft.
18-B	108 in.	150 sq. ft.	80 sq. ft.
38-A	84 in.	150 sq. ft.	80 sq. ft.
38-B	84 in.	140 sq. ft.	70 sq. ft.
38-C	84 in.	140 sq. ft.	70 sq. ft.

FORMULA—We recommend all of our bars as listed where the glass height does not exceed that given in column (A) and the combined area of the 2 plates is less than the square footage listed in column (B). The area of 1 plate must not exceed that listed in column (C).

0—Unfinished Copper

12—Medium Statuary Copper—Treated

13—Dark Statuary Copper—Treated

14—Nickel Plated Copper—Treated

15—Verde Antique Copper—Treated

16—Satin Copper—Treated

17—Satin Bronze—Treated

18—Chromium Nickel Aluminum Alloy Polished.



*Davison-Paxon Co., Atlanta
(Affiliated with Macys, N.Y.)
Starrett & Van Vleck, Archts.,
Hentz-Reid & Adler, Associates*



*J. F. Hink & Son, Inc.,
Berkeley, California
W. H. Ratchiff, Jr.,
Architect*



Leopold Morse Company, Boston, Mass., A. J. Halfenstien, Architect

A FEW OF THE THOUSANDS OF KAWNEER STORE FRONTS
INSTALLED THE WORLD OVER





G. A. Ensenger & Sons
Bloomington, Ill.
A. L. Pillsbury, Archt.
P. R. Hooton & E. Roozen
Associates



Shop, Garage and Office Bldg.
Hollywood, California
Morgan, Walls & Clements,
Architects

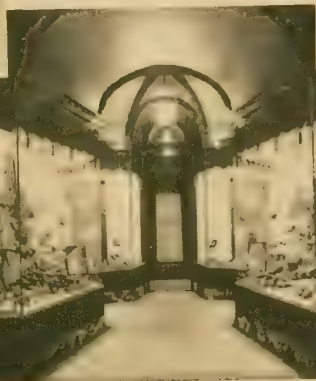


John David Store
New York, N. Y.
Starrett & Van Vleck,
Architects



Stetson Shoe Store
New York, N. Y.
Edw. Nichols, Architect

Wise Shoe Store
Milwaukee, Wis.
Elias Rothschild & Co., Inc.,
Architects

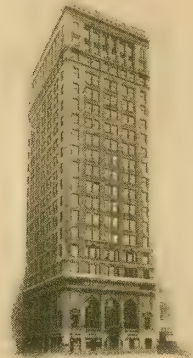


Fabey-Brockman
Denver, Colorado
McClelland & Pinnes, Architects

A FEW OF AMERICA'S FINEST
COMMERCIAL BUILDINGS
FOR WHICH KAWNEER
STORE FRONTS WERE
SPECIFIED AND PURCHASED



*Book-Cadillac Hotel, Detroit, Mich.
Louis Kamper, Archt.*



*Bankers Trust Co. Building
New York City
Montague Flagg, Archt.*



*Miami Biltmore Hotel, Miami, Florida
Schultze & Weaver, New York City, Archts.*



*New Hudson Store
Detroit, Mich.
Smith, Hinchman & Grylls,
Archts.*



*Blackhawk Hotel, Davenport, Iowa
Temple & Burrows, Archts.*



*Ziegfeld Theatre, New York City
Joseph Urban and Thomas W. Lamb,
Archts.*



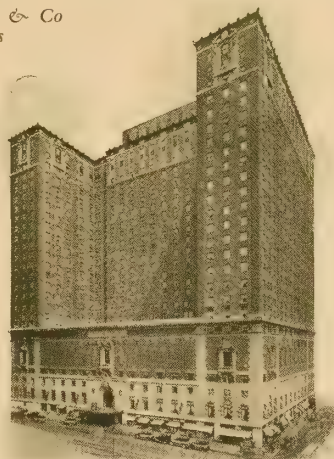
*Public Service Building
Boston, Mass.
Harold Field Kellogg, Archt.*

KAWNEER, THE ORIGINAL HOLLOW METAL STORE FRONT CONSTRUCTION, IS USED IN EVERY TYPE OF BUILDING REQUIRING SHOW WINDOWS



*Steuben Club
Chicago, Ill.*

*K. M. Vitzthum & Co
Architects*



*Commodore Hotel, New York City
Warner & Wetmore, Archts.*

*Davison-Paxon Co., Atlanta, Ga., affiliated with
Macy's New York. Starrett & Van Vleck, Archts.
Hentz-Reid & Adler, Associates*



*Southwestern Bell Telephone Bldg., St. Louis, Mo.
Mauran, Russel, Crowell, Archts., I. R. Timlin, Associate*



*Hotel Statler, Buffalo, N. Y.
G. B. Post & Sons, Archts.*



*The Republic Bldg., Denver, Colo.
E. Meredith Musick, Archt.*



*California Life Insurance Bldg.
Sacramento, Calif.
Geo. C. Sellon, Archt.*



*Chamber of Commerce Bldg.,
Indianapolis, Ind.
Robt. Frost Dagget, Archt.*

AS 50% TO 70% OF GROUND FLOOR STORE RENT IS DUE TO THE SHOW WINDOWS,
THE STORE FRONT CONSTRUCTION DESERVES MAJOR CONSIDERATION

ARCHITECTS' SPECIFICATIONS FOR STORE FRONTS

ALL solid copper (or bronze) store front construction shall be furnished and installed in exact accordance with or as indicated on the details applying to this part of the work.

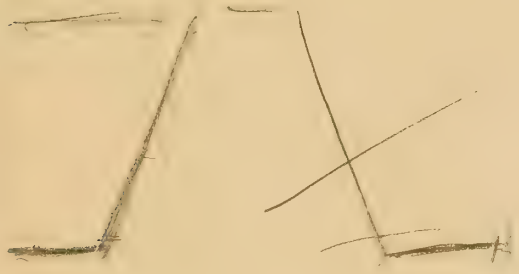
All glass in store front to be securely held in place between both inside and outside combination members of resilient, complete and genuine trade-marked Kawneer Solid Copper (or bronze) Store Front Sash and Bars of the manufacturer's numbers as indicated below or as shown on details.

All jamb, transom, cornice, soffit and bulkhead mouldings also to be genuine trade-marked Kawneer Solid Copper (or bronze) machine rolled heavy gauge hollow shapes of manufacturer's numbers as indicated below or as shown on details.

The sash shall be manufacturer's numbers.....

The bars shall be manufacturer's numbers.....

The mouldings shall be manufacturer's numbers..



SUPPLEMENTARY SECTION



IN the following pages we offer for your consideration a variety of metal products which are not directly associated with store fronts.

These items are distinguished by the same high degree of workmanship and material found in all Kawneer metal work.



07-25-1911

SOLID NICKEL-SILVER & BRONZE DOORS



These doors are characterized by beauty and durability—two very desirable features. The stiles and rails consist of heavy nickel-silver closed seam tubes strongly welded at all corners.

Two bronze shapes comprise the glazing mouldings, one of which is securely locked to the frame. This arrangement simplifies

glazing, and the two metals effect a combination of color that is very agreeable.

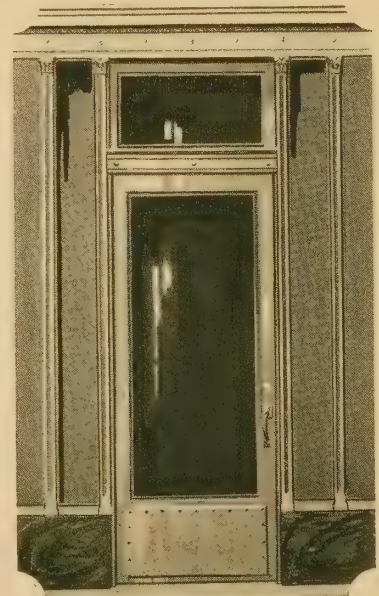
Kawneer doors do not require painting or finishing. They can be made in many combinations and styles. (See photos below and elevations on ensuing page.)

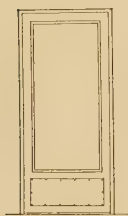
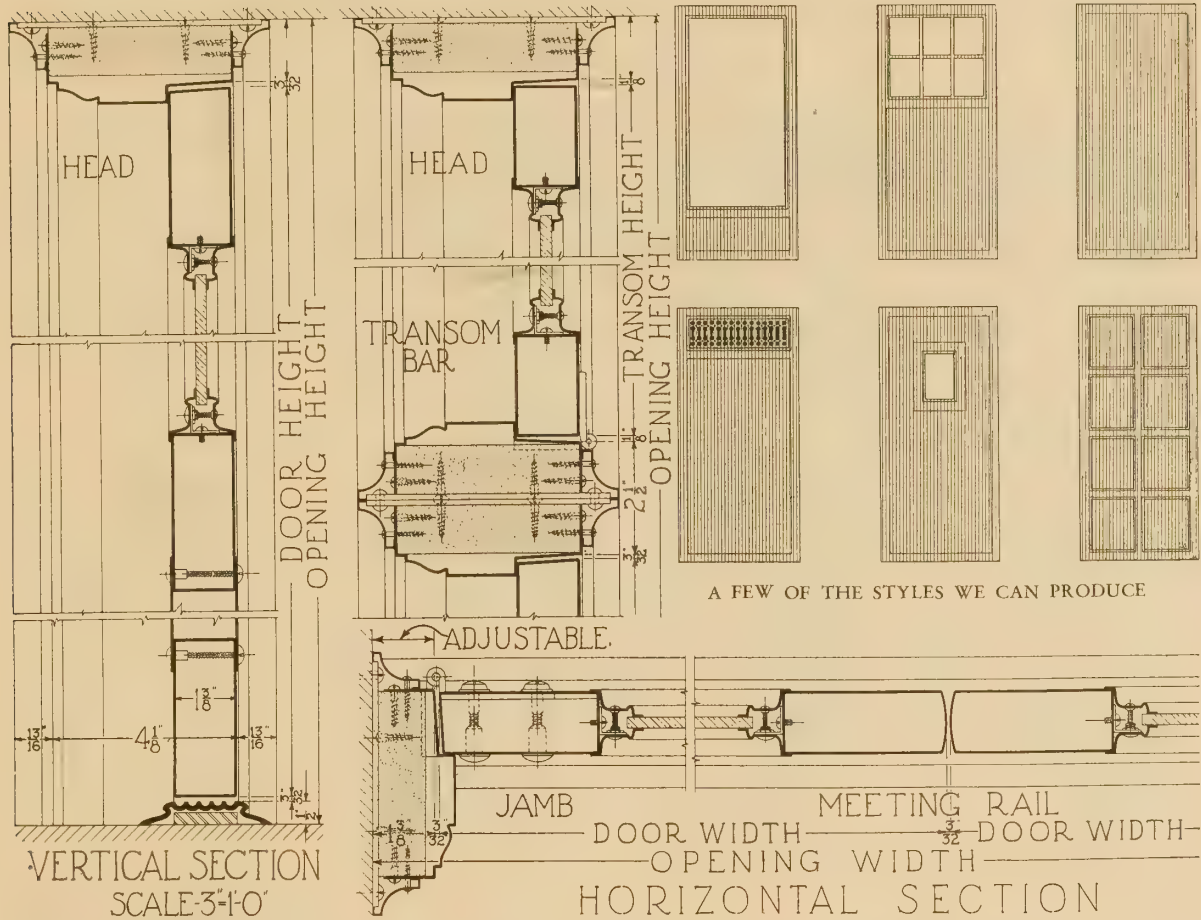
All hardware will be applied by Kawneer. They will be equipped with thresholds, strongly reinforced with steel, if specially ordered.



At the left is shown a beautiful bank entrance built entirely of nickel-silver and bronze. The complete assembly was fabricated by Kawneer.

Another entrance including side lights and transom. The bronze pilasters, ornamental caps and rosettes were furnished and installed by Kawneer.

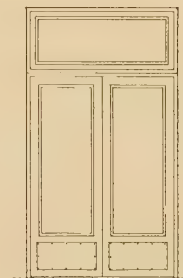




TYPE A



TYPE B



TYPE C

All doors are single acting unless otherwise specified.

TYPE A

Door Size		Opening Sizes	
Width	Height	Width	Height
2'6"	7'0"	2'8 ¹³ / ₁₆ "	7'2 ¹ / ₁₆ "
3'0"	7'0"	3'2 ¹³ / ₁₆ "	7'2 ¹ / ₁₆ "
3'6"	7'0"	3'8 ¹⁵ / ₁₆ "	7'2 ¹ / ₁₆ "
3'0"	7'6"	3'2 ¹³ / ₁₆ "	7'8 ¹ / ₁₆ "
3'6"	7'6"	3'8 ¹⁵ / ₁₆ "	7'8 ¹ / ₁₆ "

TYPE B

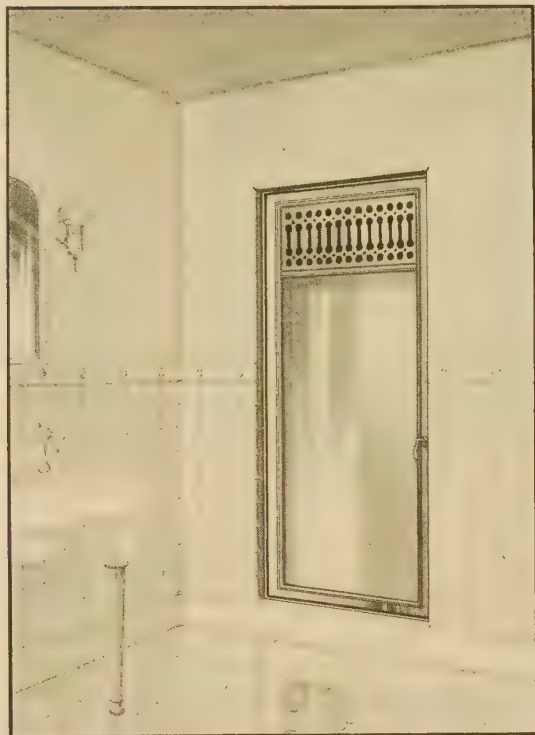
Sizes below include transom 1'3 ³ / ₄ ", 1'9 ³ / ₄ "					
Door Size		Opening Sizes			
Width	Height	Width	Height	Width	Height
2'6"	7'0"	2'8 ¹³ / ₁₆ "	8'8 ⁹ / ₁₆ "	9'2 ⁹ / ₁₆ "	
3'0"	7'0"	3'2 ¹³ / ₁₆ "	8'8 ⁹ / ₁₆ "	9'2 ⁹ / ₁₆ "	
3'6"	7'0"	3'8 ¹⁵ / ₁₆ "	8'8 ⁹ / ₁₆ "	9'2 ⁹ / ₁₆ "	
3'0"	7'6"	3'2 ¹³ / ₁₆ "	9'2 ⁹ / ₁₆ "	9'8 ⁹ / ₁₆ "	
3'6"	7'6"	3'8 ¹⁵ / ₁₆ "	9'2 ⁹ / ₁₆ "	9'8 ⁹ / ₁₆ "	

TYPE C

Sizes below include transom, 1'3 ³ / ₄ ", 1'9 ³ / ₄ "					
Door Size		Opening Sizes			
Width	Height	Width	Height	Width	Height
2'6"	7'0"	5'3 ¹ / ₃₂ "	8'8 ⁹ / ₁₆ "	9'2 ⁹ / ₁₆ "	
3'0"	7'0"	6'3 ¹ / ₃₂ "	8'8 ⁹ / ₁₆ "	9'2 ⁹ / ₁₆ "	
2'6"	7'6"	5'3 ¹ / ₃₂ "	9'2 ⁹ / ₁₆ "	9'8 ⁹ / ₁₆ "	
3'0"	7'6"	6'3 ¹ / ₃₂ "	9'2 ⁹ / ₁₆ "	9'8 ⁹ / ₁₆ "	

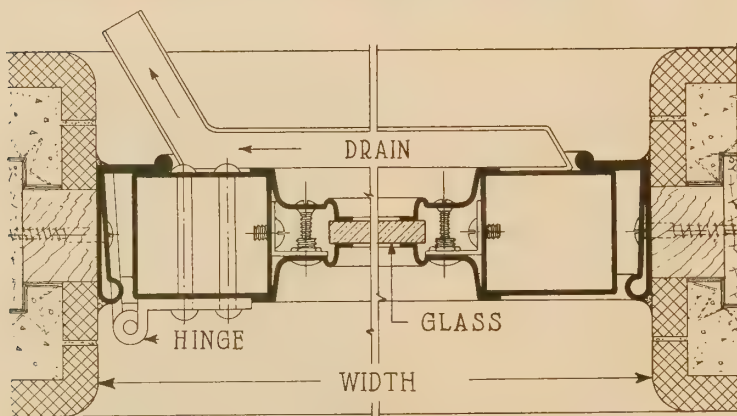
NOTE—Special doors with or without jambs can be made up to and including 4'0" x 8'0".

SOLID NICKEL-SILVER AND BRONZE SHOWER BATH DOORS

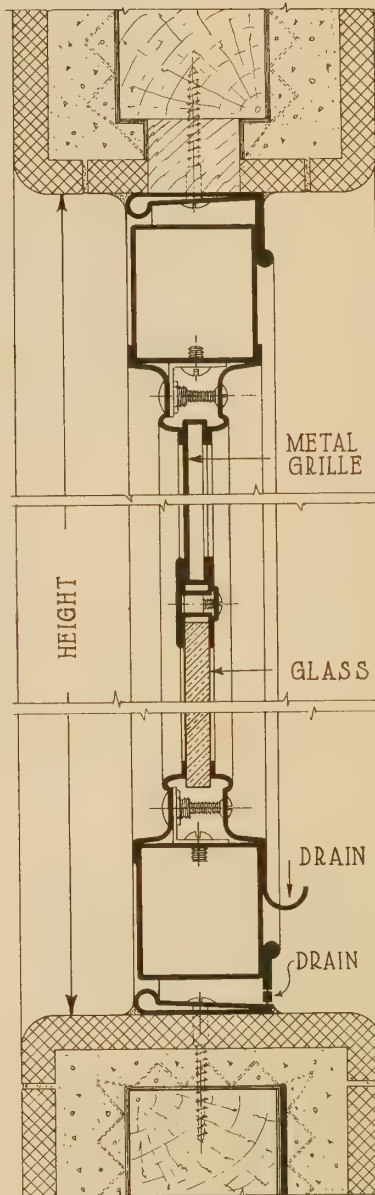


DETAILS ARE
ONE-HALF FULL SIZE

The silvery tone of these doors blends beautifully with other bath room fixtures. Don't overlook the fact that they will not rust.



HORIZONTAL SECTION



VERTICAL SECTION

Kawneer shower bath doors are constructed similarly to our standard doors shown on the preceding pages. Consisting of solid nickel-silver and bronze they are positively rust proof, making an ideal unit for a bath room.

Furnished complete with frame and necessary hardware.

Carried in the following sizes.

These dimensions include frame.

24" x 72"	26" x 76"
25" x 74"	27" x 78"

Special sizes furnished if desired.

KAWNEER SOLID NICKEL-SILVER WINDOWS

The following seven pages present photographs of recent installations, details, hardware and specifications covering Kawneer Solid Nickel-Silver Windows.

These windows are constructed of heavy cold rolled mouldings formed from an alloy of copper and nickel—a metal that is absolutely rust-proof, will not corrode or deteriorate and which requires no painting. This feature is noteworthy as it greatly reduces the maintenance of a building over a period of years and avoids replacements.

Kawneer windows are constructed by first cutting the mouldings to length, mitering or coping them to an exact fit and then securely welding every joint. This process gives the desirable feature of sturdiness of construction which assures reliable and long duration of service.

On pages 54 and 55 there is shown in detail the excellent weathering qualities of these windows made possible by the close engage-



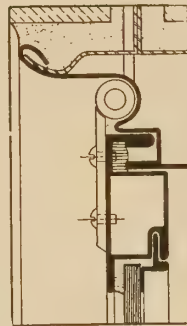
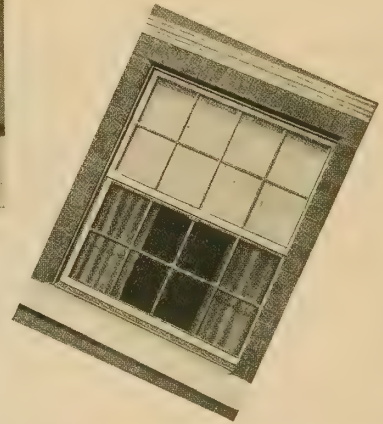
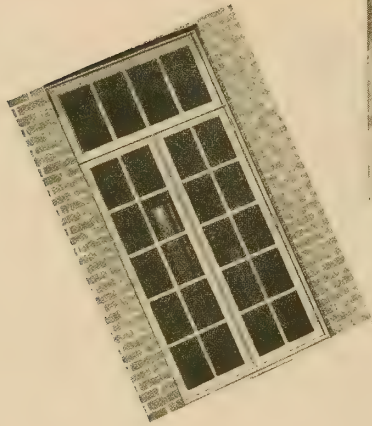
*Walter G. Smith Residence
Green Lake, Wisconsin
Wm. A. Merrigold, Architect*

ment of the sash and jamb members. This eliminates the expense of applying separate weather strips and offers a window that is positively weather-tight, dust-proof and one that will not bind and rattle. Because of the sturdy but compact members used in Kawneer sash and frames, the glass or light area per wall opening is much greater than in standard wood or hollow metal construction.

These windows are completely assembled at our factory, including hardware, so that they are ready to be placed in the masonry opening when received at the job.

Kawneer Solid Nickel-Silver Windows afford inside glazing, the glass being back-puttied and held in place with a heavy metal glazing strip. This glazing strip is securely held in place by a continuous channel, the latter being a part of the sash. This arrangement simplifies reglazing and forms a trim line between the glass and sash.



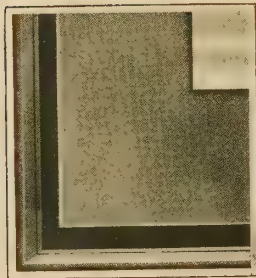


This shows how sash and jamb members interlock

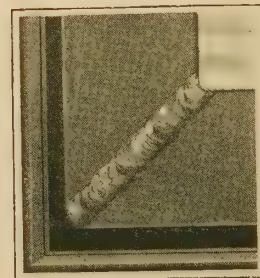


KAWNEER WINDOWS ARE MADE TO ARCHITECTURAL SIZES IN VARIOUS STYLES

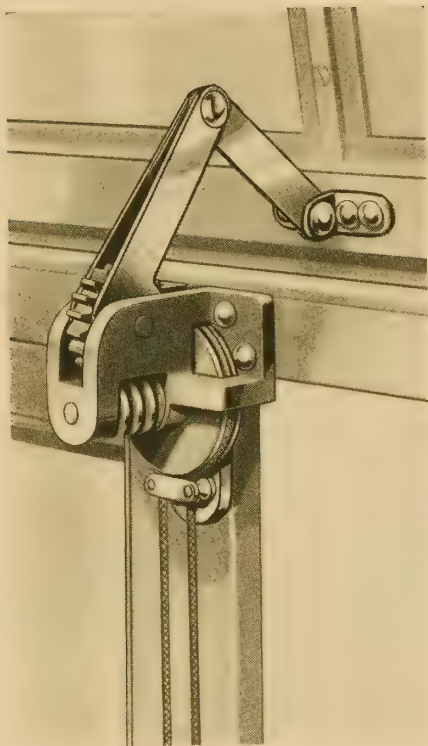
KAWNEER SOLID NICKEL-SILVER WINDOWS are offered in standard weight-hung, out-swinging casement, special transom casement and large area types. Practically any style of the various types may be had. If desired, they can be made with muntins, and in groups with mullions of corresponding metal.



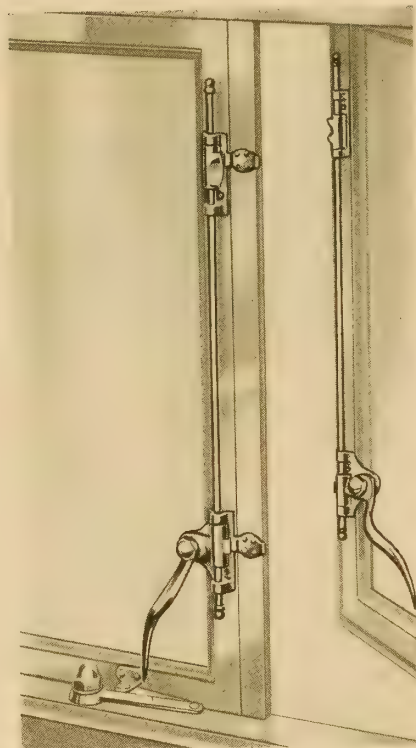
Above illustration shows welded joint ground and polished.



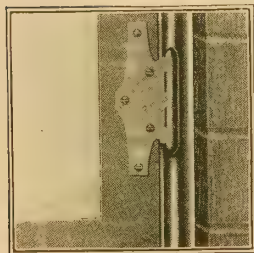
This shows welded joint neither ground nor polished, which is preferred by many.



This transom operator is strongly built and will hold the sash open without the use of side arms, etc. The adjustment is positive and controlled by a strong hard woven cord.



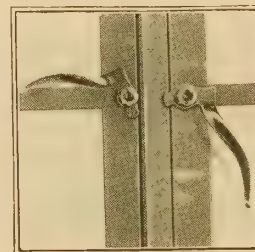
A double contact window bolt that secures the top and bottom of sash to center rail or jamb. It is operated by a free turning handle. Can be furnished for sash of various heights.



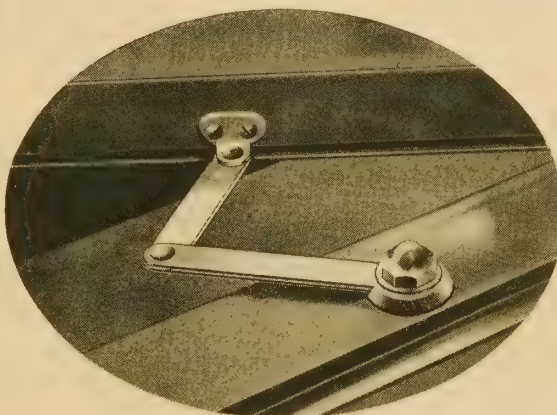
Featured above is the ornamental hinge that gives free opening and closing to Kawneer casements. Note its unusual design.



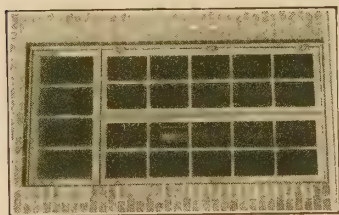
The appointments of Kawneer Windows match their durability and beauty. All hardware is made to function satisfactorily and beautify the window without interfering with screens, drapes, etc.



These graceful palm-fitting handles draw the sash up snugly to adjoining members thus obtaining perfect weathering.

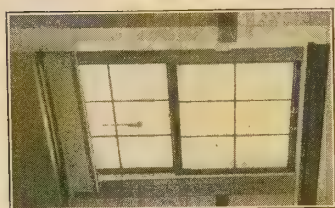
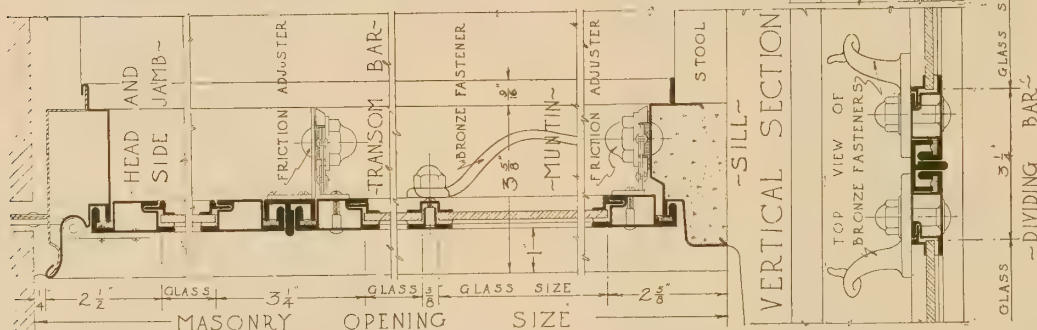


A friction adjuster of solid nickel-silver that will hold the sash at any desired angle without the usual adjustment of machine screws, etc. Furnished with casements.



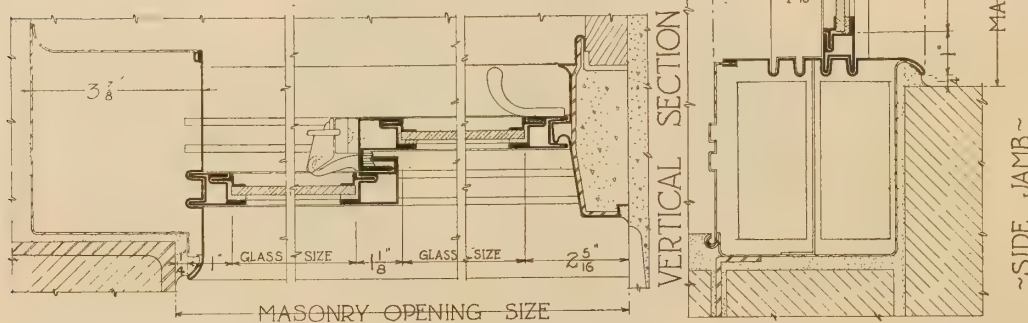
ONE-QUARTER
FULL SIZE

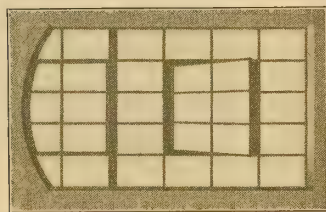
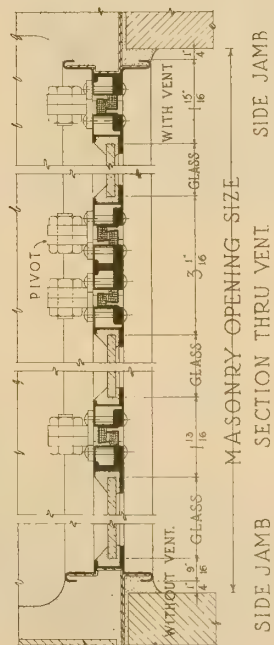
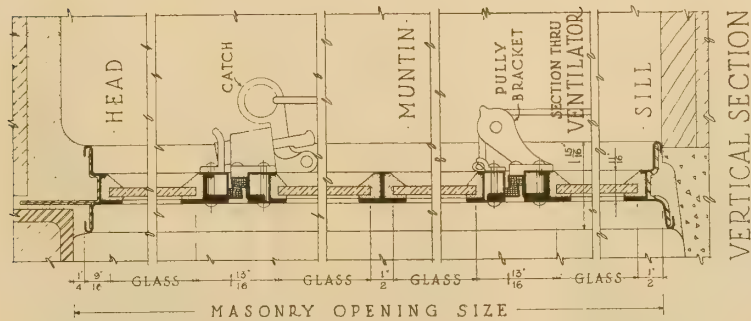
*Detail of
Kawneer Solid Nickel-Silver
Casement Window
Screens can be easily applied*



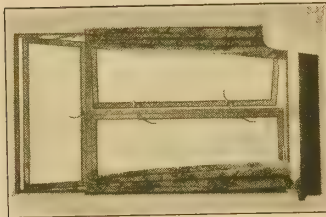
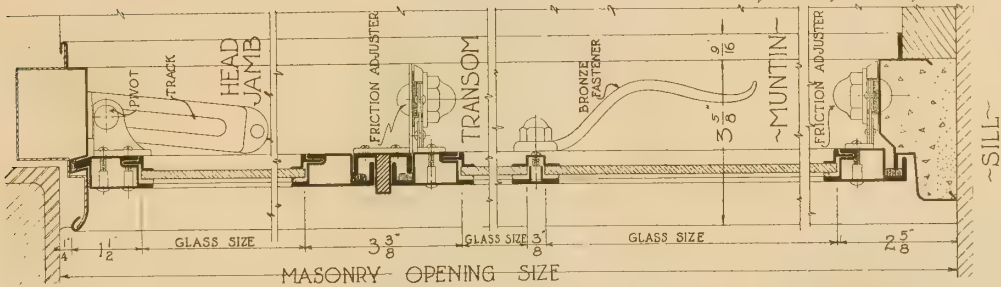
ONE-QUARTER
FULL SIZE

*Detail of
Kawneer Solid Nickel-Silver
Wright-Hung Window
Screens can be easily applied*

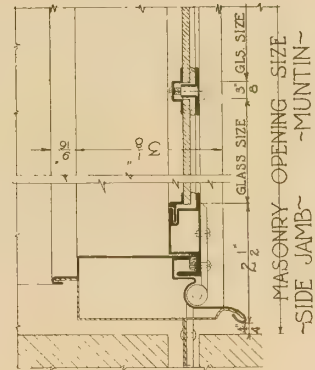




ONE-QUARTER
FULL SIZE
Detail of
Kawneer Solid Nickel-Silver
Pivot Type Window.



ONE-QUARTER
FULL SIZE
Detail of
Kawneer Solid Nickel-Silver
Special Transom Casement
Window
Screens can be easily applied.





*The Langlade National Bank
Antigo, Wis.
Oppenhamer & Obel, Archts.*



*F. R. Eaglesfield's Residence
Niles, Mich.
Benjamin & Benjamin, Archts.
Wilfred McLaughlin, Associated*



*Lima Trust Company Building
Lima, Ohio
Weary & Alford, Archts.*



*Hickson Building
New York, N. Y.
Springstein & Goldhammer, Archts.*



*Evangelical Church
South Bend, Indiana
Freyermuth & Maurer, Archts.*



*C. T. Johnson's Residence
Niles, Mich.*



*Tripoli Temple Mosque
Milwaukee, Wis.
Clas, Shepherd & Clas, Archts.*

SPECIFICATIONS FOR KAWNEER NICKEL-SILVER CASEMENT WINDOWS

All Casement Windows shall be as manufactured by THE KAWNEER COMPANY, Niles, Michigan, and which are known as KAWNEER NICKEL-SILVER CASEMENT WINDOWS.

All exposed parts of these windows are to be made of mouldings rolled of heavy gauge solid Nickel-Silver. Parts which are not exposed, such as the windbreak members at the sides and top, are to be made of mouldings rolled of heavy gauge steel. All such steel parts are to be thoroughly copper plated and painted with red lead.

All finished hardware is to be of Nickel-Silver. This is to include all necessary hinges, friction stays and fasteners.

All corner joints of the sash and frames are to be welded. Mouldings of sash and frames are to

be shaped to interlock in such a way as to form a thorough weathering at all places where the sash fit into the frames, transoms or dividing bars. The weathering groove which is rolled in the sash is to be fitted with all-wool weatherproof felt so that when sash are closed this felt will come in direct contact with corresponding weathering members of frames, transoms or dividing bars.

All windows are to be built to the exact sizes and detail as shown by these plans and elevations, following the manufacturer's standard practices.

Glass is to be held in place by continuous metal strip which fits into sash member securely without the use of screws or bolts. Glass is to be furnished and installed by glazing contractor.



SPECIFICATIONS FOR KAWNEER NICKEL-SILVER WEIGHT HUNG WINDOWS

All Weight Hung Windows shall be as manufactured by THE KAWNEER COMPANY, Niles, Michigan, and which are known as KAWNEER NICKEL-SILVER WEIGHT HUNG WINDOWS.

All exposed parts of these windows are to be made of mouldings rolled of heavy gauge solid Nickel-Silver. Parts which are not exposed, such as weight pockets, weight pocket separators and windbreaks are to be mouldings rolled of heavy gauge steel. All such steel parts are to be thoroughly copper plated and then painted with red lead. All finished hardware is to be of Nickel-Silver.

All corner joints of the sash and frames are to be welded. Mouldings of sash and frames are to be so formed that they interlock in such a way as to make a double fin weathering all along the jambs and at the head. The mould-

ings of the sash are to interlock at the meeting rail and at the bottom with the sill so as to form equally efficient weathering at these two places.

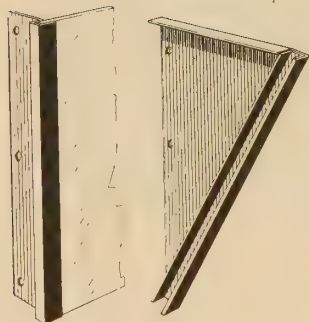
Pulleys shall be the standard product as manufactured by THE KAWNEER COMPANY. Weights shall be suspended by phosphor bronze cable. Weights shall be either cast iron or lead as may be required to properly balance sash.

All windows are to be built to the exact sizes and detail as shown by these plans and elevations, following the manufacturer's standard practices.

Glass is to be held in place by continuous metal strip which fits into sash member securely without the use of screws or bolts. Glass is to be furnished and installed by glazing contractor.

WINDOW VENTILATORS

PERFECT CONTROL OF FRESH AIR AT LOW COST



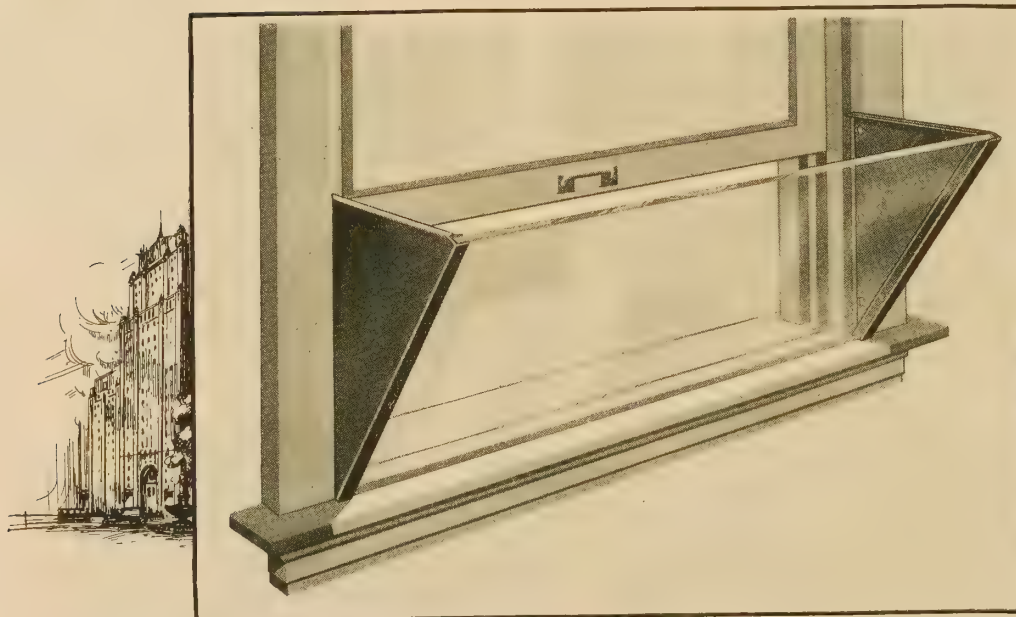
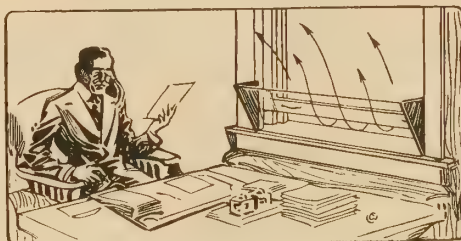
Vertical type at left, angle type at right. These brackets are furnished in maroon, green and white baked enamel. Shipments include necessary wood screws.



These neat and inexpensive devices provide fresh air without draft. They can be easily attached to the lower jambs of a weight hung window, then by inserting plate glass or some other appropriate material in the grooves, an efficient and inconspicuous shield is obtained. Furnished from stock in vertical and angle types (see illustrations at left).



The skill of a mechanic is not required to attach these brackets to the jambs of a window. Screws and screw driver together with a few moments time, are the only requisites.



FOR OFFICES, APARTMENTS, RESIDENCES, HOTELS AND PUBLIC BLDGS.

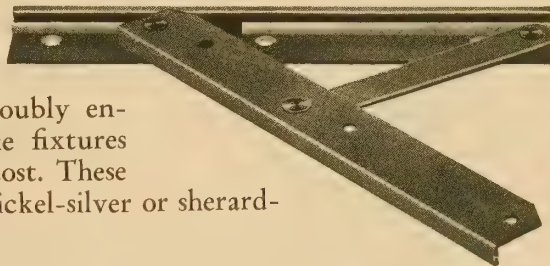
REVERSIBLE WINDOW FIXTURES

THEY ELIMINATE HINGES AND ADJUSTERS



**FULLY
REVERSIBLE
TYPE**

This fixture is used on the window shown at the right.



CASEMENT TYPE

This fixture is used on the window shown in the lower left hand corner.

Windows can be made doubly enjoyable with these reliable fixtures and at a very reasonable cost. These fixtures are produced in nickel-silver or sherardized steel.

Due to an ingenious arrangement of friction discs they will hold the window open at any angle without the use of other hardware.

We call to your attention the following features:

- (1) No hinges or adjusters required.
- (2) Perfect control of sash and ventilation.
- (3) Will not balk or stick.
- (4) Fixture entirely concealed when sash is closed.
- (5) Quickly and easily applied to wood members.

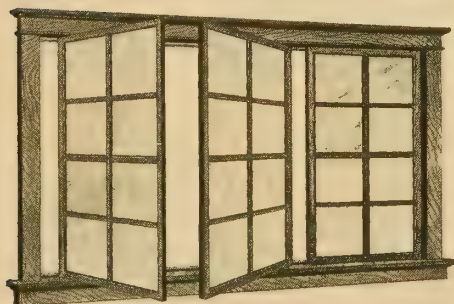
These fixtures are carried in stock, neatly packed in cartons including instructions for installation.

FINISH HARDWARE

In addition to the fixtures mentioned above we are in a position to furnish Casement Fasteners, Ring Pulls and Transom Pulls, if desired. This hardware is cast brass with brush finish.



This type is made possible by the use of the fixtures shown at left. It is especially appropriate for schools and office buildings.



A type of window commonly used in residences. The fixture in the upper right hand corner can be applied to a battery of windows such as shown or on a single or double casement.



BOTH SIDES OF GLASS EASILY
CLEANED FROM WITHIN

The Old Way
Difficult and Dangerous



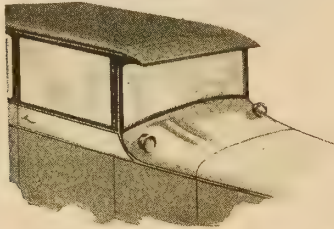
The Kawneer Way
Easy and Safe

STEEL MOULDINGS

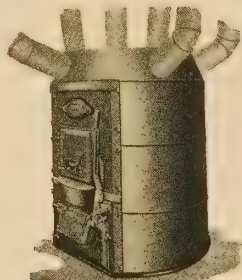
MADE TO MANUFACTURERS' SPECIFICATIONS—NOT STOCK ITEMS

Kawneer produces annually millions of feet of cold rolled mouldings and tubing for a great variety of industries. These two pages picture but a few of the hundreds of shapes produced in steel, bronze, copper, brass, zinc,

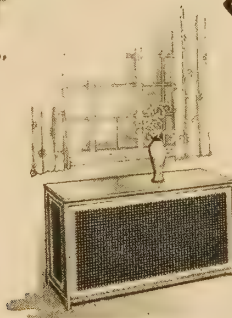
aluminum and other metals. Small delicate shapes in metal .009 thick and heavy massive shapes up to .187 thick indicate the flexibility of our capacity to serve.



WIND SHIELD TUBING
AND ASSEMBLIES



WARM-AIR FURNACE RINGS,
BASES AND CROWNS



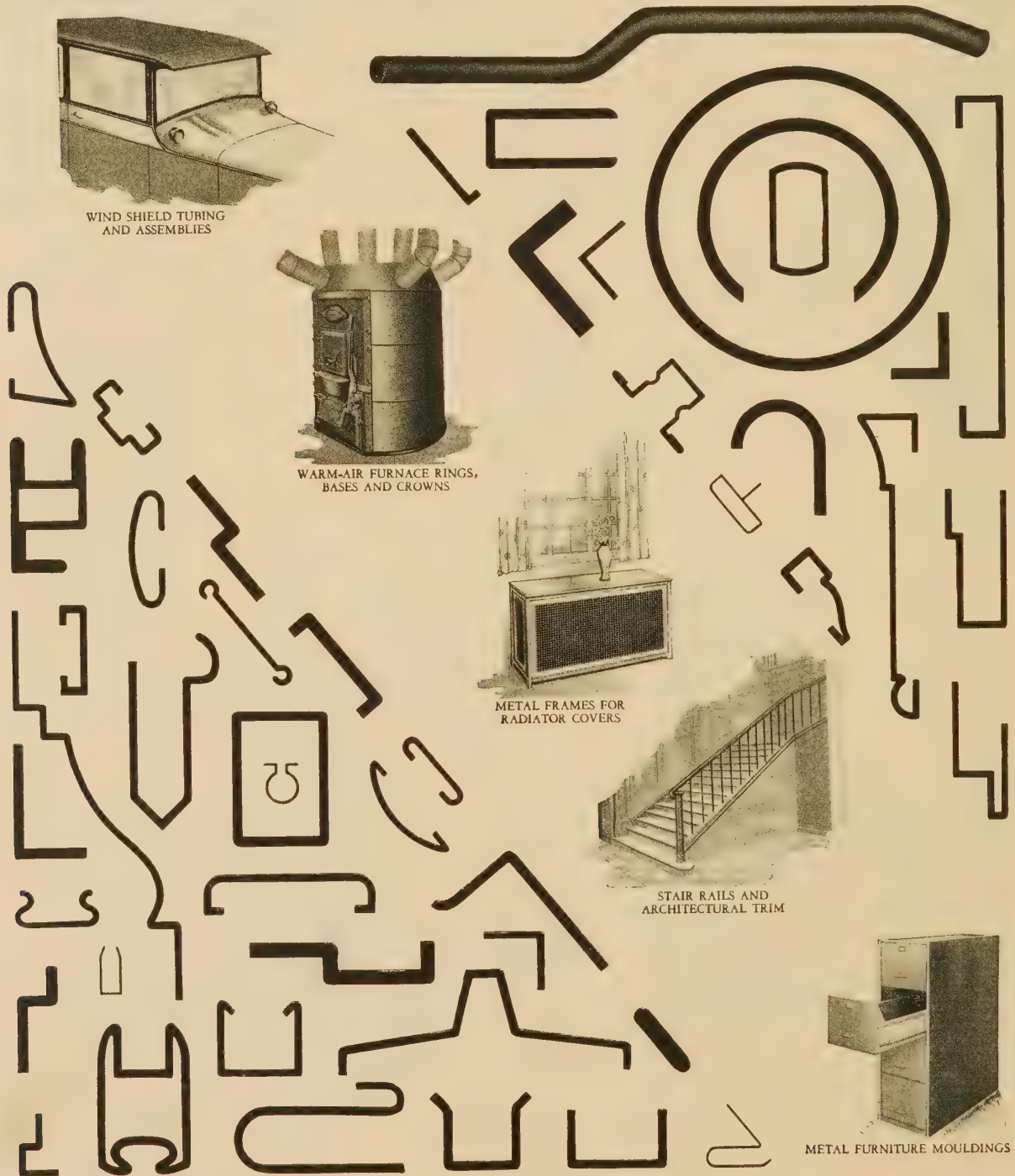
METAL FRAMES FOR
RADIATOR COVERS

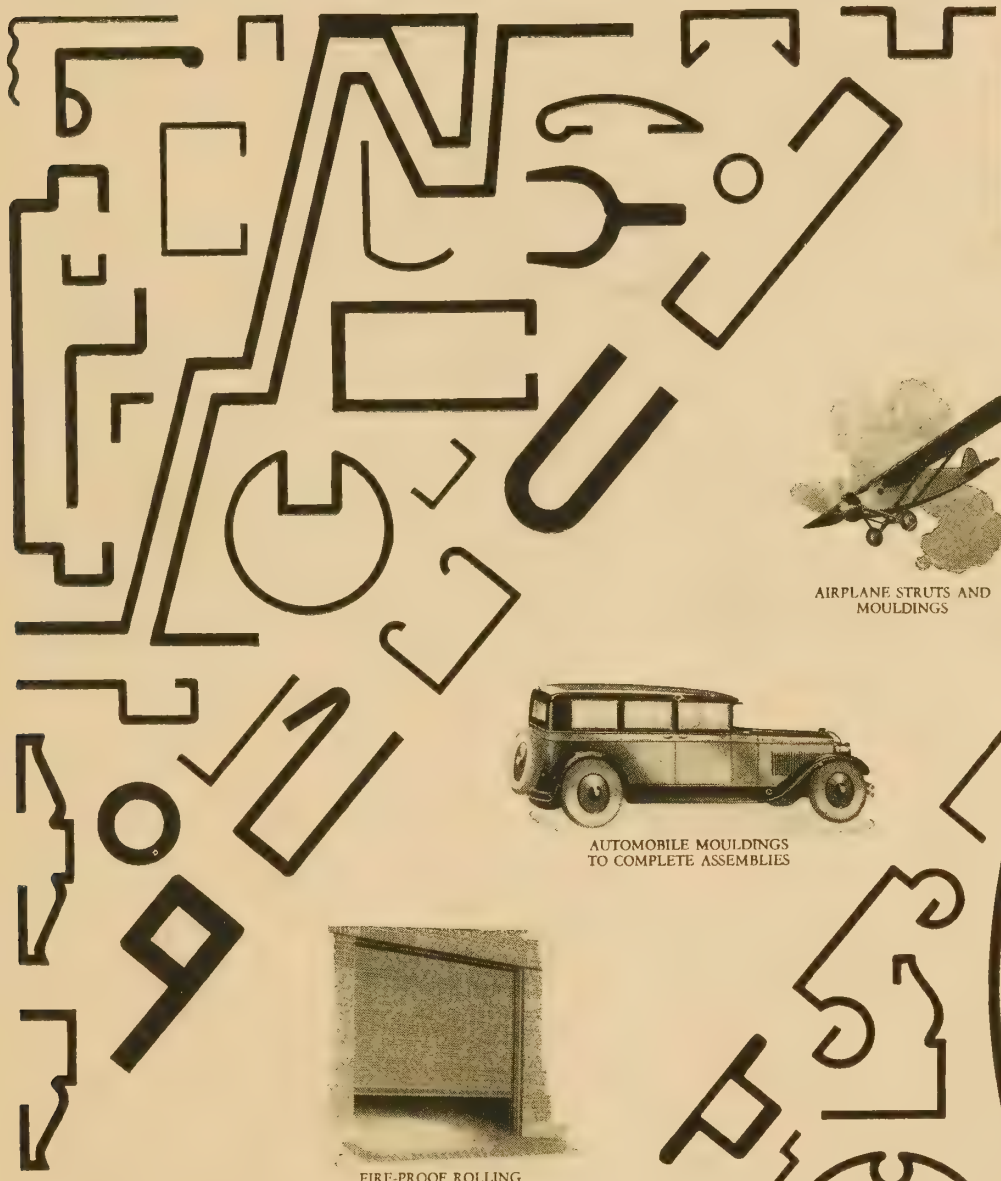


STAIR RAILS AND
ARCHITECTURAL TRIM



METAL FURNITURE MOULDINGS





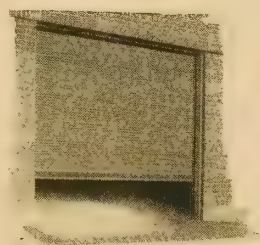
FIRE-PROOF SAFE
MOULDINGS



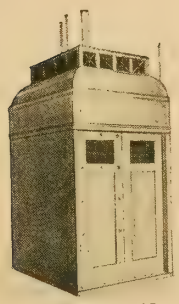
AIRPLANE STRUTS AND
MOULDINGS



AUTOMOBILE MOULDINGS
TO COMPLETE ASSEMBLIES



FIRE-PROOF ROLLING
DOOR SLATS



METAL TRIM FOR
ELEVATOR CABS

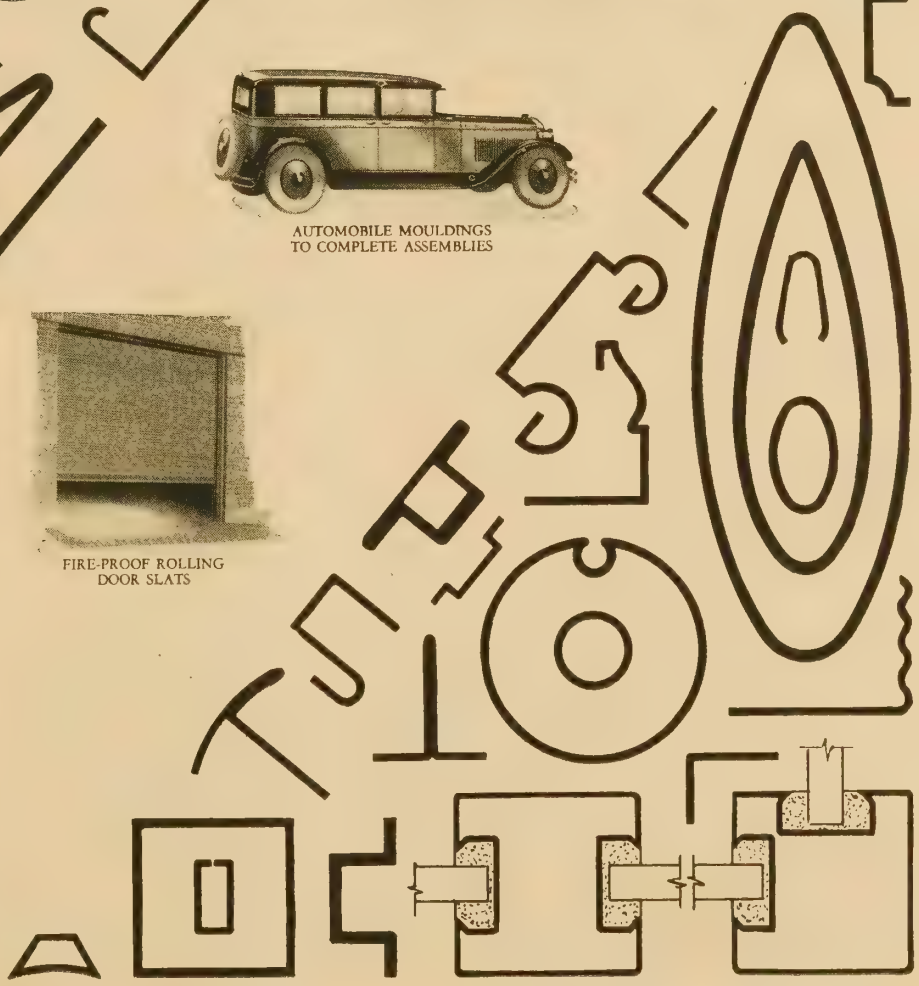
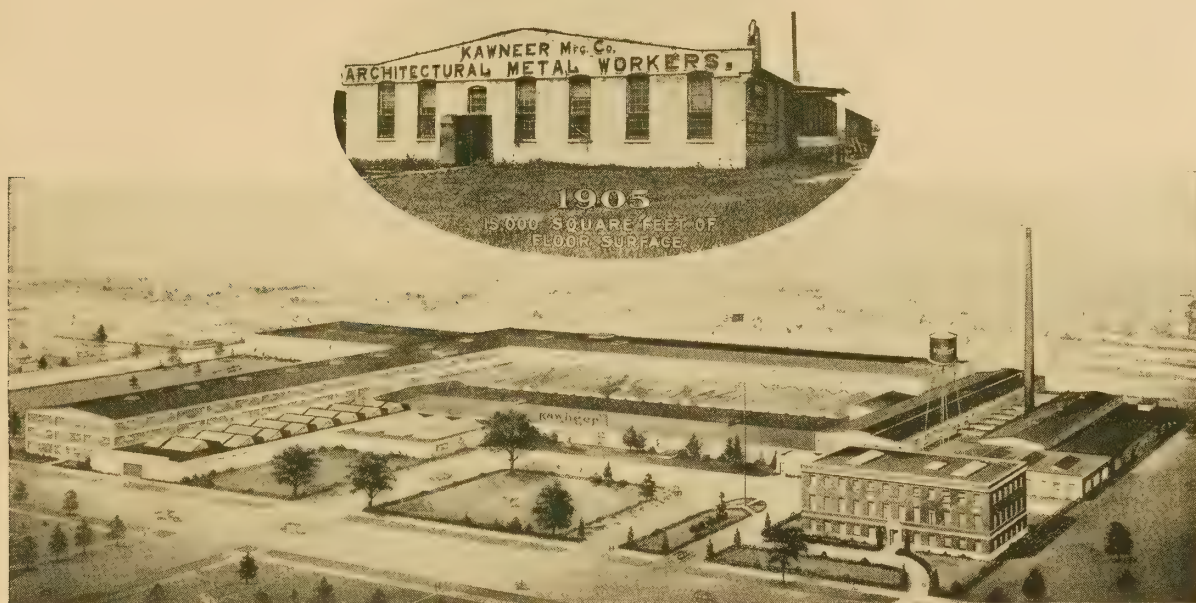


TABLE OF CONTENTS

	PAGE
Angles (Metal)	39
Assembly of Bars, Sash, Jamb and Sill.....	26
Awning Bar Construction.....	15 to 17
Bars (Corner, Division and Reverse).....	19-20-21
Bars (Corner, Division and Reverse), Installed From Outside	21
Bulkhead Construction.....	12 to 14
Caps (Metal).....	26
Channels, (Metal)	39
Corner Bars	19
Cornice Construction	10
Division Bars	20
Door Frame Construction (Wood)	17
Doors (Solid Nickel-Silver and Bronze)	48-49
Doors, Shower Bath (Solid Nickel-Silver and Bronze)	50
Grilles (Metal)	32
Instructions for Ordering Store Fronts	41
Jambs (Head and Side)	22-23-24-25
Kickplates	31
Marquise Designs	11
Metal Covering (Wood Door Frame)	17
Mirror Mouldings	30
Mouldings (Architectural)	33 to 39
Name Panel Construction	10
Ornamental Store Front Construction	6 to 9
Push Plates	31
Reverse Bars	21
Sash (Metal)	18
Show Case Doors (Metal)	27 to 29
Sills (Metal)	23 to 25
Soffit Construction (Metal)	11
Specifications, Architects (Nickel-Silver Windows)	57
Specifications, Architects (Store Fronts)	46
Steel Mouldings	60-61
Store Front Details, Full Size	22 to 25
Supplementary Section	47 to 61
Thresholds	31
Transom Bars	17-22-23-24
Ventilator Construction (Metal)	30
Window Fixtures (Reversible)	59
Window Hardware	53
Windows (Solid Nickel-Silver)	51 to 57
Window Ventilators	58



Situated in the beautiful valley of the St. Joseph River at Niles, Mich., lie the spacious buildings of The Kawneer Company

The Kawneer Company,
1109 Candler Bldg.,
129 Peachtree Street,
Atlanta, Georgia

The Kawneer Company,
Room 21C Horn Building,
17 Guilford Avenue,
Baltimore, Maryland

The Kawneer Company,
Room 1409
Charles Chauncy Bldg.,
38 Chauncy Street,
Boston, Massachusetts

The Kawneer Company,
951 Ellicott Square,
Buffalo, New York

The Kawneer Company,
Room 1450,
Adams-Franklin Bldg.,
222 West Adams Street,
Chicago, Illinois

The Kawneer Company,
Room 818, Johnston Bldg.,
Charlotte, North Carolina

The Kawneer Company,
Builders Exchange,
3rd Floor, Rose Bldg.,
Cleveland, Ohio

The Kawneer Company,
Building Industries Bldg.,
622-626 Broadway,
Cincinnati, Ohio

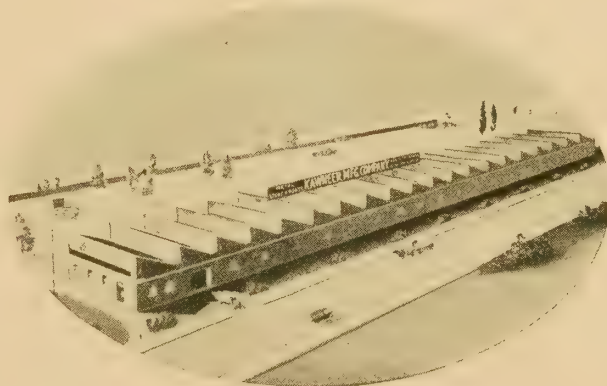
The Kawneer Company
642 Beaubien Street,
Detroit, Michigan

FRANCIS J. PLYM, *President*

EVERY buyer has a right to know if the product he contemplates purchasing has been tried or proven.

When you buy a store front from Kawneer you are dealing with the firm that pioneered the store-front field. Starting in the small factory pictured above, 24 years ago, this institution has shown remarkable growth. The fact that more than 300,000 Kawneer Fronts have been installed, on the business streets of the nation, proves the soundness of our policy, "The product must give satisfactory service to the user."

In addition to Store Fronts, The Kawneer Company manufactures Kawneer Solid Bronze Windows (casement and weight-hung); also produces annually several million feet of metal moulding and tubing. Prompt service being an essential of modern business, Kawneer maintains the branch offices listed hereon, together with more than 130 distributors.



A subsidiary plant, The Kawneer Manufacturing Company of California, is located at Berkeley, California, having several branch offices and distributors for handling the territory west of the Rockies.

The Kawneer Company,
1211 Grand Avenue,
Temple Building,
Kansas City, Missouri

The Kawneer Company,
Room 1028, Inter-Southern Bldg.,
Louisville, Kentucky

The Kawneer Company,
Room 317, Underwriter's Exch.,
490 Broadway,
Milwaukee, Wisconsin

The Kawneer Company,
Room 517-518 Farnsworth Bldg.,
Corner Main & Union Sts.,
Memphis, Tennessee

The Kawneer Company,
233 Tenth Avenue,
New York City, New York

The Kawneer Company,
1219 Union Indemnity Bldg.,
New Orleans, Louisiana

The Kawneer Company,
Room 305,
Union State Bank Bldg.,
Omaha, Nebraska

The Kawneer Company,
401 Central Trust Bldg.,
Philadelphia, Pennsylvania

The Kawneer Company,
Room 605, American Bank Bldg.,
600-604 Grant Street,
Pittsburgh, Pennsylvania



